राष्ट्रीय परीक्षा एजेंसी
National Testing Agency
Excellence in Assessment

JEE (MAIN)-2022
Information Bulletin

English, हिन्दी, অসমীয়া, বাংলা, ગુજરાતી, ಕನ್ನಡ, മലയാളം, मराठी, ଓଡ଼ିଆ, ਪੰਜਾਬੀ, தமிழ், తెలుగు & اردو

NATIONAL TESTING AGENCY

Vision

The right candidates joining best institutions will give India her demographic dividend.

Mission

To improve equity and quality in education by administering research based valid, reliable, efficient, transparent, fair and international level assessments. The best subject matter experts, psychometricians and IT delivery and security professionals will ensure that the current gaps in existing assessment systems are properly identified and bridged.

Core Values

NTA will create a system which will promote teaching (by teachers), learning (by students) and assessment (by parents and institutions). NTA strongly believes in quality, efficiency, effectiveness, equity and security of assessments. To practice these values, NTA will constantly engage with its stakeholders, viz. students, parents, teachers, experts and partner institutions.

LIST OF ABBREVIATIONS

JEE (Main)	*Joint Entrance Examination (Main)*
AICTE	*All India Council of Technical Education*
JoSAA	*Joint Seat Allocation Authority*
CSAB	*Central Seat Allocation Board*
B.E.	*Bachelor of Engineering*
B.Tech.	*Bachelor of Technology*
B.Arch.	*Bachelor of Architecture*
B.Planning	*Bachelor of Planning*
CoA	*Council of Architecture*
MoE	*Ministry of Education*
NTA	*National Testing Agency*
GoI	*Government of India*
GST	*Goods & Service Tax*
IIT	*Indian Institute of Technology*
IIIT	*Indian Institute of Information Technology*
NIT	*National Institute of Technology*
DASA	*Direct Admission for Students Abroad*
CFTI	*Centrally Funded Technical Institute*
UFM	*Unfair Means*
CBT	*Computer Based Test*
NEP	*National Education Policy*
RPwD	*Rights of Person with Disabilities*
QP	*Question Paper*
TPC	*Test Practice Centre*
FAQ	*Frequently Asked Question*
QRS	*Query Redressal System*
EWS	*Economically Weaker Section*
OBC (NCL)	*Other Backward Class (Non-Creamy Layer)*
SC	*Scheduled Castes*
ST	*Scheduled Tribes*

IMPORTANT INFORMATION AT A GLANCE
(Please refer to Information Bulletin for details)

1. **Important Dates :**

EVENTS	DATES
(a) Session-1 (April) : JEE (Main) - 2022 :	
Online Submission of Application Form	**01.03.2022 to 31.03.2022 up to 05.00 P.M.**
Last date for successful transaction of prescribed application Fee	**31.03.2022 up to 11.30 P.M.**
Announcement of the City of Examination	**First week of April 2022**
Downloading of Admit Cards from NTA website	**Second week of April 2022**
Dates of Examination	**16.04.2022 to 21.04.2022**
Display of Question Paper attempted by the Candidate and Answer Keys for inviting challenges	**To be displayed on the NTA website**
Declaration of Result	**To be displayed on the NTA website**
(b) Session-2 (May) : JEE (Main) - 2022 :	
Online Submission of Application Form	**08.04.2022 to 03.05.2022 up to 05.00 P.M.**
Last date for successful transaction of prescribed application Fee	**03.05.2022 up to 11.30 P.M.**
Announcement of the City of Examination	**Second week of May 2022**
Downloading of Admit Cards from NTA website	**Third week of May 2022**
Dates of Examination	**24.05.2022 to 29.05.2022**
Display of Question Paper attempted by the Candidate and Answer Keys for inviting challenges	**To be displayed on the NTA website**
Declaration of Result	**To be displayed on the NTA website**
(c) Duration of Examination for each Session: JEE (Main) - 2022 :	
Paper 1 (B.E./B.Tech) or Paper 2A (B.Arch) or Paper 2B (B.Planning)	**3 Hours**
B.Arch & B.Planning (both)	**3 Hours 30 Minutes**

(d) Timing of Examination for each Session: JEE (Main) - 2022 :

Duration of Examination	First Shift	Second Shift
For 3 Hours Paper	**09.00 a.m. to 12.00 Noon(IST)**	**03.00 p.m. to 06.00 p.m. (IST)**
For 3 Hours 30 Minutes Paper	**09.00 a.m. to 12.30 p.m. (IST)**	**03.00 p.m. to 06.30 p.m. (IST)**

2. **Fee Payable for JEE (Main) – 2022 for each session:**
   (Through Credit Card/Debit Card (except Master/Visa Card)/Net Banking/UPI):

Fee payable for JEE (Main) – 2022 (through Credit Card /Debit Card (except Master/Visa Card) / Net-Banking/UPI)		Type of Candidate	In India (Fee in ₹)	Outside India (Fee in ₹)
Paper 1: B.E./B. Tech or Paper 2A: B. Arch or Paper 2B: B.Planning	General/Gen-EWS/ OBC (NCL)	Male	**650**	**3000**
		Female	**325**	**1500**
	SC/ST/PwD	Male	**325**	**1500**
		Female	**325**	**1500**
	Third Gender		**325**	**1500**
Paper 1: B.E./B. Tech & Paper 2A: B. Arch or Paper 1: B.E./B. Tech & Paper 2B: B. Planning or Paper 1: B.E./B.Tech, Paper 2A: B. Arch & Paper 2B: B.Planning or Paper 2A: B. Arch & Paper 2B: B.Planning	General/Gen-EWS/OBC (NCL)	Male	**1300**	**6000**
		Female	**650**	**3000**
	SC/ST/PwD	Male	**650**	**3000**
		Female	**650**	**3000**
	Third Gender		**650**	**3000**
Processing charges and Goods & Service Taxes (GST) are to be paid by the candidate, as applicable.				

"Candidates are requested to fill in the Application Form very carefully. No corrections will be permitted once the Application Form is submitted"

Note: *Multiple Application Forms submitted by a candidate for the same Session(s) will not be accepted at any cost.*

(i) In the first session, only Session 1 will be visible and candidates can opt for that. In the next session, Session 2 will be visible, and the candidates can opt for that Session. The application window for Session 2 will be re-opened later on. Examination for Session 2 will be the last Examination for the JEE (Main) - 2022.

A candidate can apply for Session 1 and pay the exam fee for Session 1 in the given duration. If a candidate wishes to apply for Session 2, he/she has to apply again when the window will be re-opened after the conduct of Session 1 and pay the Examination Fee for Session 2 during that period.

(ii) The fee can be submitted only online through Net Banking, Credit Card, Debit Card, UPI, or Paytm Services. Processing charges and GST as applicable are chargeable from the candidate (in addition to the examination fee) by the concerned Bank/Payment Gateway Integrator. For details/procedure, please see **Appendix-II**

(iii) The Confirmation Page of the online Application Form for each session will be generated only after successful payment of the fee by the Candidate. In case the Confirmation Page is not generated after payment of fee, then the candidate may have to approach the concerned Bank/Payment Gateway (in the helpline numbers and email given in **Appendix- II**) for ensuring the successful payment or for obtaining the refund of duplicate /multiple payments.

1. Candidates must read carefully the Instructions (including how to fill up the Application Form online) given in the Information Bulletin available on the NTA Website. Candidates not complying with the instructions shall be summarily disqualified.

2. Candidates can apply for **JEE (Main) - 2022 through the "Online" mode only**. The Application Form **in any other mode will not be accepted.**

3. Submission of Application Form could be made by the candidate online through the NTA website: **https://jeemain.nta.nic.in/**

4. **Instructions for filling Online** Application Form:

❖ Download Information Bulletin and Replica of Application Form. Read these carefully to ensure your eligibility.

❖ **Follow the steps given below to Apply Online:**

Step 1: Registration Form:
Register for the Online Application Form and note down the system-generated Application Number. The candidate should supply the required details while filling the Online Application Form and is also required to create PASSWORD and choose Security Question and enter his/her Answer. After successful submission of the personal details, an Application number will be generated and it will be used to complete the remaining Steps of the Application Form and will also be required for all future reference/correspondence. This application number will also be used/referred for both Sessions of JEE (Main) - 2022. For subsequent logins, the candidate will be able to login directly with the respective system-generated **Application Number** and created **Password.**

Step 2: Application Form:
The Candidates can log in with the system-generated Application Number and pre-created Password for completing the Application Form including filling up of personal details, applying for the Paper, choosing the Examination Cities, providing the details of Educational Qualifications, and uploading the images and documents (if any).

Upload Scanned Images of Candidate's Photograph, Signature, and Category Certificate (if applicable), and PwD Certificate (wherever applicable):

i. **The recent photograph should be either in colour or black & white with 80% face (without mask) visible including ears against a white background.**

ii. Scanned photograph and signature should be in JPG/JPEG format (clearly legible).

iii. The size of the scanned photograph should be between 10 kb to 200 kb (clearly legible).

iv. The size of the scanned signature should be between 4 kb to 30 kb (clearly legible)

v. The size of the scanned copy of the Category certificate (SC/ST/OBC/EWS etc.) should be in pdf between 50kb to 300kb (clearly legible).

vi. The size of the scanned copy of the PwD certificate should be in pdf between 50 kb to 300 kb (clearly legible)

[Note: The Candidate has to upload only his/her own photograph, signature, and certificate(s) as mentioned above (and not of anybody else) in a correct/proper manner, *as the facility for correction will not be given in the future*. In case, it is found at any time in the future that the Candidate has used/uploaded the photograph, signature, and certificate(s) of someone else in his/her Application Form/Admit Card, or *he/she has tampered his/her Admit Card/Result/Scorecard, these acts of the candidate shall be treated as Unfair Means (UFM) Practices and he/she shall be proceeded with the actions as contemplated under the provisions of the Information Bulletin relating to Unfair Means Practices.*

Please check your photograph and signature before submission of the Application Form. In case the photograph or signature is blurred or not visible to identify the identity of the candidate then, the application will be rejected and no option for correction or revision will be permitted

Step 3: Fee Payment:

After completing Step 1 and Step 2, the candidates have to pay the requisite examination fee. The fee can be submitted only online through Net Banking, Credit Card, Debit Card, UPI, or Paytm Services. Processing charges and GST as applicable are chargeable to the candidate (in addition to the examination fee) by the concerned Bank/Payment Gateway Integrator.

The Confirmation Page of the online Application Form will be generated only after successful payment by the Candidate. In case the Confirmation Page is not generated after payment of fee, then the candidate may have to approach the concerned Bank/Payment Gateway (in the helpline number and e-mail given in the Information Bulletin) for ensuring the successful payment or for obtaining the refund of duplicate / multiple payments].

❖ Download, save and print a copy of the Confirmation Page of the Application Form (which would be downloadable only after successful remittance of fee) for future reference.

❖ All **3 Steps** can be done together or at separate timings. The submission of the Application of a candidate could be considered as successful and his/her candidature would be confirmed only on the successful transaction/receipt of the prescribed application fee from him/her.

5. Candidates shall ensure that the information entered by them in their respective online Application Form is correct.

6. *All candidates must ensure that they have provided the correct e-mail address and mobile number. A copy of the Confirmation Page and Final Score Card of JEE (Main) – 2022 will also be sent to the registered e-mail address of the Candidates.*

7. Information provided by the candidates in their respective online Application Forms, like, the name of the candidate, contact details, address details, category, PwD status, educational qualification details, date of birth, choice of exam cities, etc. will be treated as final. **Any request for change in such particulars will not be considered by NTA under any circumstances.**

8. NTA does not edit/modify/alter any information entered by the candidates after completion of the application process under any circumstances. Any request for change in information thereafter will not be entertained. Therefore, candidates are advised to exercise utmost caution before filling up the correct details in the Application Form.

9. NTA disclaims any liability that may arise to a candidate(s) due to incorrect information provided by him/her in his/her online Application Form.

10. Candidates must ensure that their email address and mobile number to be registered in their online Application Form are their own, as relevant/important information/ communication will be sent by NTA through e-mail on the registered mail address and/or through SMS on the registered mobile number only. NTA shall not be responsible for any non-communication /miscommunication with a candidate in the email address or mobile number given by him/her other than his/her own.

11. Candidates are also requested to **download and install the SANDES** application as a secondary channel to receive time-to-time notifications from NTA.

SANDES APP can be downloaded and installed system-generated Mobile Device as follow:

- Visit the Google Play Store on your Mobile Device.
- Search for the **"Sandes App"** in the search bar.
- It then displays the app in the play store.
- Click on Install, and then the app gets downloaded into your mobile.
- Now, mobile users can enjoy the services of the Sandes Mobile App.

Candidates are advised to visit the NTA Website and check their e-mails regularly for the latest updates.

12. Candidates shall appear at their own cost at the Examination Centre on the date, shift, and time indicated on their Admit Cards issued by the NTA in due course through its Website.

Note:

i. The final submission of the Online Application Form will remain incomplete if **Step-3** is not complete. Such forms will stand rejected and no correspondence on this account will be entertained.

ii. The entire application process for **JEE (Main) - 2022** is online, including uploading of scanned images/documents, payment of fees, and printing of Confirmation Page, Admit Card, etc. **Therefore, candidates are not required to send/submit any document(s) including Confirmation Page to NTA through Post/ Fax/WhatsApp/Email/by Hand.**

iii. NTA is facilitating to all candidates with an additional platform of UMANG and DigiLocker to download their documents like Confirmation Page, Admit Card, Score Cards, etc. Instruction will be provided in subsequent phases. Candidates are advised to visit the NTA Website and check their e-mails regularly for the latest updates.

iv. Usage of Data and Information: NTA/Government of India can use the data provided by the End Users (test taker in this case) for the internal purpose(s) including training, research and

development, analysis, and other permissible purposes (s). However, this information is not for use by any third party or private agency for any other use.

v.   *Choice of exam cities displayed to the candidates will be based on the permanent and correspondence addresses filled during Online Application Form of **JEE (Main) - 2022**.*

vi. **Candidates are advised to fill only one Application Form and to take utmost care while filling out the mobile number and e-mail address. Candidates are also advised to use the mobile number and email address that are accessible to them such as of their parent/ guardian. One mobile number and email address can be used for one Application Form only.**

Brief Advisory regarding ongoing COVID-19 Pandemic:
Candidates are advised to carry only the following with them into the examination venue:
i.   **Admit card along with Self Declaration (Undertaking) downloaded from the NTA Website (a clear printout on A4 size paper) duly filled in.**
ii. **A simple transparent Ball Point Pen.**
iii. **Additional photograph, to be pasted on the attendance sheet.**
iv. **Personal hand sanitizer (50 ml).**
v.   **Personal transparent water bottle.**
vi. **Sugar tablets/fruits (like banana/apple/orange) in case the candidate is diabetic.**

Note:

1. All Candidates shall ensure that the information (like his/her name, mother's name, father's name, gender, date of birth, category, PwD status, mobile number, e-mail address, photograph and signature, choice of cities for exam Centre, etc.) provided by them in their online Application Form is correct and of their own. **Candidates are advised to exercise the utmost care in filling up correct details in the Online Application Form.** *Any request for change in the particulars and uploaded scanned images at any stage will not be considered by NTA under any circumstances.* **NTA will not entertain the corrections sent by the candidate through Post/Fax/WhatsApp/E-mail/by Hand.**

2. In case it is found at any time in the future that the Candidate has used/uploaded the photograph, signature, and certificate(s) of someone else in his/ her Application Form/Admit Card or he/she has tampered with his/her Admit Card/result, it would be treated as Unfair Means (UFM) Practices on his/her part and the actions will be taken under the provisions of Unfair Means Practices, as detailed in the Information Bulletin.

3. **Candidates are NOT allowed to carry Instruments, Geometry or Pencil box, Handbag, Purse, any kind of Paper/ Stationery/ Textual material (printed or written material), Eatables and Water (loose or packed), Mobile Phone/ Earphone/ Microphone/ Pager, Calculator, DocuPen, Slide Rules, Log Tables, Camera, Tape Recorder, Electronic Watches with facilities of calculator, any metallic item or electronic gadgets/ devices in the Examination Hall/Room.**

4. *Candidates are requested to retain a copy of the Confirmation Page, Admit Card, and Scorecard of the JEE (Main) – 2022 as the same will not be available after **30 June 2022**.*

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CHAPTER 1
INTRODUCTION

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1.1   About National Testing Agency (NTA)

The Ministry of Education (MoE), Government of India (GoI) has established the National Testing Agency (NTA) as an independent, autonomous, and self-sustained premier testing organization under the Societies Registration Act (1860) for conducting efficient, transparent, and international standardized tests in order to assess the competency of candidates for admission to premier higher education institutions with a mission to improve equity and quality in education by developing and administering research-based valid, reliable, efficient, transparent, fair and international level assessments.

NTA has created a system that is promoting teaching (by teachers), learning (by students), and assessment (by parents and institutions). NTA strongly believes in the quality, efficiency, effectiveness, equity, and security of assessments. To practice these values, NTA is constantly engaging with its stakeholders, viz. students, parents, teachers, experts, and partner institutions.

The objectives of NTA, *inter alia***, include:**

1. To conduct efficient, transparent, and international standardized tests in order to assess the competency of candidates for admission.
2. To undertake research on educational, professional, and testing systems to identify gaps in the knowledge systems and take steps for bridging them.
3. To produce and disseminate information and research on education and professional development standards.

The Department of Higher Education, Ministry of Education, Government of India has entrusted the responsibility of conducting the Joint Entrance Examination (JEE Main) to the NTA from 2019 onwards.

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CHAPTER-2
JOINT ENTRANCE EXAMINATION (MAIN) - 2022

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2.1 About JEE (Main) - 2022

The Joint Entrance Examination, JEE (Main) comprises two papers. **Paper 1** is conducted for admission to Undergraduate Engineering Programs (**B.E/B.Tech.**) at NITs, IIITs, other Centrally Funded Technical Institutions (CFTIs), Institutions/Universities funded/recognized by participating State Governments. JEE (Main) is also an eligibility test for JEE (Advanced), which is conducted for admission to IITs. **Paper 2** is conducted for admission to **B. Arch and B. Planning** courses in the Country. From the year 2021, Dr. APJ Abdul Kalam Technical University (AKTU), Lucknow and Madan Mohan Malviya University of Technology, Gorakhpur will be using the score sheet of JEE (Main) for admission to the B.Tech./M.Tech. (Integrated)/B.Arch. Courses in its affiliated colleges across the State.

The JEE (Main) - 2022 will be conducted in **02** (**two) sessions** for admissions in the next academic session. The candidates will thus benefit in the following ways:

- This will give **two** opportunities to the candidates to improve their scores in the examination if they are not able to give their best in one attempt.
- In the first attempt, the students will get a first-hand experience of taking an examination and will know their mistakes which they can improve while attempting for the second time.
- This will reduce the chances of dropping a year and droppers would not have to waste an entire year.
- If anyone missed the examination due to reasons beyond control (such as the Board examination), then he/she will not have to wait for one entire year.
- A candidate need not appear in both Sessions. However, if a candidate appears in more than one Session then his/her best of the JEE (Main) - 2022 NTA Scores will be considered for preparation of Merit List/ Ranking.

1. **JEE (Main) - 2022 Session 1 for Paper 1 (B.E./B.Tech.) will be held from *16 to 21 April 2022* followed by Session 2 from *24 to 29 May 2022*. This is being done to ensure that the JEE (Main) - 2022 does not interfere with the Board examinations, which may be held at different times across the States/UTs. Paper 2A and Paper 2B (B. Arch and B. Planning) will also be held twice a year (April and May 2022).**

2. **It has been decided to provide choices in one section of each subject of Paper 1 and Part-I of Paper 2A and 2B to cater to the decision of different Boards across the country regarding the reduction of the syllabus. However, the total number of questions to be attempted will remain the same (Physics – 25, Chemistry – 25, and Mathematics – 25), wherever applicable.**

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CHAPTER 3
EXAMINATION SCHEME

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3.1 Mode of Examination

JEE (Main) - 2022 will be conducted in the following modes:

a) **Paper 1 (B.E. /B. Tech.)** in "Computer Based Test (CBT)" mode only.

b) **Paper 2A (B. Arch):** Mathematics (Part-I) and Aptitude Test (Part-II) in "Computer Based Test (CBT)" mode only and Drawing Test (Part-III) in pen and paper (offline) mode, to be attempted on drawing sheet of A4 size.

c) **Paper 2B (B. Planning):** Mathematics (Part-I), Aptitude Test (Part-II), and Planning Based Questions (Part-III) in Computer Based Test (CBT) mode only.

3.2 Choice of Medium of Question Papers

Medium of the Question Papers: Drawing from the National Education Policy (NEP), the JEE (Main) - 2022 will be conducted in English, Hindi, *Assamese, Bengali, Gujarati, Kannada, Malayalam, Marathi, Odia, Punjabi, Tamil, Telugu, and Urdu.*

S. No.	Language	Examination Centres
1.	**English**	All Examination Centres
2.	**English and Hindi**	All Examination Centres in India
3.	**English and Assamese**	Examination Centres in Assam
4.	**English and Bengali**	Examination Centres in West Bengal, Tripura, and Andaman & Nicobar Islands
5.	**English and Gujarati**	Examination Centres in Gujarat, Daman & Diu, Dadra & Nagar Haveli
6.	**English and Kannada**	Examination Centres in Karnataka
7.	**English and Malayalam**	Examination Centres in Kerala and Lakshadweep
8.	**English and Marathi**	Examination Centres in Maharashtra
9.	**English and Odia**	Examination Centres in Odisha
10.	**English and Punjabi**	Examination Centres in Punjab, Chandigarh, and Delhi/New Delhi (including Faridabad, Ghaziabad, Gurugram, Meerut, Noida/Greater Noida)
11.	**English and Tamil**	Examination Centres in Tamil Nadu, Puducherry, and Andaman & Nicobar Islands
12.	**English and Telugu**	Examination Centres in Andhra Pradesh and Telangana
13.	**English and Urdu**	All Examination Centres in India

The option of language for Question Paper should be exercised while filling up the Application Form online and it cannot be changed at a later stage.

Please note that for the correctness of the questions in all the question papers, the English version will be taken as final.

3.3 Scheme of Examination

Subject combinations for each paper, type of questions in each paper, and mode of examination is given in the table below:

PAPER	SUBJECTS	TYPE OF QUESTIONS	MODE OF EXAMINATION
Paper 1: B.E./B.Tech.	**Mathematics, Physics and Chemistry**	Objective Type - Multiple Choice Questions (MCQs) and Questions for which answer is a numerical value, with equal weightage to Mathematics, Physics, and Chemistry	"Computer Based Test (CBT)" mode only
Paper 2A: B. Arch	**Part-I: Mathematics**	Objective Type - Multiple Choice Questions (MCQs) and Questions for which answer is a numerical value	"Computer Based Test (CBT)" mode only
	Part-II: Aptitude Test	Objective Type - Multiple Choice Questions (MCQs)	
	Part-III: Drawing Test	Questions to test drawing aptitude	"Pen and Paper Based" (offline) mode to be attempted on a Drawing sheet of **A4 size**.
Paper 2B: B. Planning	**Part-I: Mathematics**	Objective Type - Multiple Choice Questions (MCQs) and Questions for which answer is a numerical value	"Computer Based Test (CBT)" mode only
	Part-II: Aptitude Test	Objective Type - Multiple Choice Questions (MCQs)	
	Part-III: Planning Based Questions	Objective Type - Multiple Choice Questions (MCQs)	

3.4 Pattern of Examination

Paper1: B.E./ B. Tech. in Computer Based Test (CBT) mode:

1.	**Subject wise distribution of Questions, Total Number of Questions and Marks**	Subject	Section A	Section B	Marks
		Mathematics	20*	10*	100
		Physics	20*	10*	100
		Chemistry	20*	10*	100
		Total	90		300

*Each Subject will have two sections. Section A will be of Multiple-Choice Questions (MCQs) and Section B will contain Questions whose answers are to be filled in as a numerical value. In Section B, candidates have to attempt any **05 (five) questions out of 10**. **There will be negative marking for both Section A and Section B.** For each question in Section B, **enter the correct integer value** of the answer using the mouse and the on-screen virtual numeric keypad in the place designated to enter the answer. **For Section B, the answer should be rounded off to the nearest Integer.***

2	**Marking Scheme for MCQs**	Correct Answer or the Most Appropriate Answer	Four marks (+4)
		Incorrect Answer	Minus one mark (-1)
		Unanswered / Marked for Review	No mark (0)
3.	**Marking Scheme for questions for which the answer is a Numerical value**	Correct Answer	Four marks (+4)
		Incorrect Answer	Minus one mark (-1)
		Unanswered / Marked for Review	No mark (0)
4.	**Method of determining merit**	Conversion of the raw score in Mathematics, Physics, Chemistry, and the conversion of the total into NTA scores. **Overall merit shall be prepared by merging NTA scores of all shifts of all days.**	
5.	**Method of resolving ties**	Tie between candidates obtaining equal Total NTA scores in Paper1: B.E./B.Tech will be resolved in the following manner in descending order: 1. NTA score in Mathematics, followed by 2. NTA score in Physics, followed by 3. NTA score in Chemistry, followed by 4. Candidate with less proportion of a number of attempted incorrect answers and correct answers in all the subjects in the Test, followed by 5. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Mathematics in the Test, followed by 6. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Physics in the Test, followed by 7. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Chemistry in the Test followed by 8. Older in Age followed by 9. Application Number in ascending order	

Paper 2A (B. Arch): Mathematics (Part-I) and Aptitude Test (Part-II) in Computer Based Test (CBT) mode only and Drawing Test (Part-III) in Pen and Paper Based (offline) mode, to be attempted on drawing sheet of A4 size.

1.	**Subject wise distribution of Questions, Total Number of Questions and Marks**	Subject	Number of Questions	Marks
		Part I: Mathematics	20* (Section **A**) and 10* (Section **B**)	100
		Part II: Aptitude Test	50	200
		Part III: Drawing Test	02	100
		Total	82	400

*20 questions will be MCQs and 05 (five) questions will have answers to be filled as a numerical value out of 10. **There will be negative marking for both Section A and Section B**. For each question in Section B, **enter the correct integer value** of the answer using the mouse and the on-screen virtual numeric keypad in the place designated to enter the answer. **The answer should be rounded off to the nearest Integer.**

2.	**Marking Scheme for MCQs**	Correct Answer or the most appropriate Answer	Four marks (+4)
		Incorrect Answer/Multiple Answer	Minus one mark (-1)
		Unanswered /Marked for Review	No mark (0)
3.	**(a) Marking Scheme for questions for which answer is a Numerical value**	Correct Answer or the most appropriate Answer	Four marks (+4)
		Incorrect Answer	Minus one mark (-1)
		Unanswered / Marked for Review	No mark (0)
	(b) Marking Scheme for Drawing Test (Part III)	Two questions are to be evaluated out of **100** marks.	
4.	**Method of determining merit**	Conversion of the raw score in Mathematics, Aptitude Test, Drawing Test, and Total into NTA Scores. Overall merit shall be prepared by merging NTA Scores of both shifts of all days.	
5.	**Method of resolving ties**	Tie between candidates obtaining equal Total NTA scores in Paper 2A: B. Arch will be resolved in the following manner: 1. NTA score in Mathematics, followed by 2. NTA score in Aptitude Test, followed by 3. NTA score in Drawing Test, followed by 4. Candidate with less proportion of a number of attempted incorrect answers and correct answers in all the subjects in the Test, followed by 5. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Mathematics (Part-I) in the Test, followed by 6. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Aptitude Test (Part-II) in the Test followed by 7. Older in Age followed by 8. Application Number in ascending order	

Paper 2B (B. Planning) Part-I: Mathematics, Part-II: Aptitude Test, and Part-III: Planning Based Questions in Computer Based Test (CBT) mode only

1.	**Subject wise distribution of Questions, Total Number of Questions and Marks**	Subject	Number of Questions	Marks
		Part-I: Mathematics	20* (Section **A**) and 10* (Section **B**)	100
		Part-II: Aptitude Test	50	200
		Part-III: Planning	25	100
		Total	105	400

*20 questions will be MCQs and 05 (five) questions will have answers to be filled as a numerical value out of 10. **There will be negative marking for both Section A and Section B**. For each question in Section B, **enter the correct integer value** of the answer using the mouse and the on-screen virtual numeric keypad in the place designated to enter the answer. **The answer should be rounded off to the nearest Integer.***

2.	**Marking Scheme for MCQs**	Correct Answer or the most appropriate Answer	Four marks (+4)
		Incorrect Answer/Multiple Answer	Minus one mark (-1)
		Unanswered /Marked for Review	No mark (0)

3.	**Marking Scheme for questions for which answer is a Numerical value**	Correct Answer or the most appropriate Answer	Four marks (+4)
		Incorrect Answer	Minus one mark (-1)
		Unanswered / Marked for Review	No mark (0)
4.	**Method of determining merit**	Conversion of the raw score in Mathematics, Aptitude Test, Planning Based Test, and Total into NTA Scores. **Overall merit shall be prepared by merging NTA Scores of all shifts of all days.**	
5.	**Method of resolving ties**	Tie between candidates obtaining equal Total NTA scores in B. Planning will be resolved in the following manner: 1. NTA score in Mathematics, followed by 2. NTA score in Aptitude Test, followed by 3. NTA score in Planning Based Questions, followed by 4. Candidate with less proportion of a number of attempted incorrect answers and correct answers in all the subjects in the Test, followed by 5. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Mathematics (Part-I) in the Test, followed by 6. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Aptitude Test (Part-II) in the Test, followed by 7. Candidate with less proportion of a number of attempted incorrect answers and correct answers in Planning Based Questions (Part-III) in the Test followed by 8. Older in Age followed by 9. Application Number in ascending order	

Important Note:

(a) For Multiple Choice Questions: To answer a question, the candidates need to choose one option corresponding to the correct answer or the most appropriate answer. However, if any anomaly or discrepancy is found after the process of challenges of the key verification, it shall be addressed in the following manner:

(i)   Correct answer or the most appropriate answer: Four marks (+4)

(ii)   Any incorrect option marked will be given minus one mark (-1).

(iii) Unanswered/Marked for Review will be given no mark (0).

(iv)   If more than one option is found to be correct then Four marks (+4) will be awarded to only those who have marked any of the correct options.

(v)   If all options are found to be correct then Four marks (+4) will be awarded to all those who have attempted the question.

(vi)   If none of the options is found correct or a Question is found to be wrong or a Question is dropped then percent equivalence is to be established on the remaining questions whether attempted or not attempted.

(b) For Numerical Value Questions: There will be no negative marking for Section B**.** However, if any anomaly or discrepancy is found after the process of challenges of the key verification, it shall be addressed in the following manner:

i. Correct Answer: Four marks (+4)

ii. Incorrect Answer: Minus one mark (-1)

iii. Unanswered/Marked for Review: No mark (0).

iv. If a question is found to be incorrect or the Question is dropped then Four marks (+4) will be awarded to all those who have attempted the question. The reason could be due to human error or technical error.

v. Candidates are advised to do the calculations with the constants given (if any) in the questions. The answer should be rounded off to the nearest Integer.

3.5 Duration of Test

The total time duration for Paper 1 (B.E. /B.Tech.) is given in the table below:

Paper	Subjects	Total Time Duration	
		For Non-PwD Candidates	***For PwD Candidates**
Paper 1 (B.E./B.Tech.)	Physics, Chemistry, and Mathematics	3 hours	4 hours
***Note: - Compensatory time for PwD Candidates of 20 minutes for one-hour examination**			

Total time duration for Paper 2A (B. Arch), Paper 2B (B.Planning), and Paper 2A (B. Arch) & Paper 2B (B.Planning) both are given in the table below:

Paper	Subjects	Total Time Duration	
		For Non-PwD Candidates	***For PwD Candidates**
Paper 2A (B.Arch) Only	Mathematics, Aptitude Test and Drawing Test	**3 hours**	**4 hours**
Paper 2B (B.Planning) Only	Mathematics, Aptitude Test, and Planning Based Questions	**3 hours**	**4 hours**
Paper 2A (B.Arch) and Paper 2B (B.Planning) both	Mathematics, Aptitude Test, Drawing Test, and Planning Based Questions	**3 hours 30 minutes**	**4 hours 10 minutes**
***Note: - Compensatory time for PwD Candidates of 20 minutes for one-hour examination**			

3.6 Syllabus of Examination

The details of the syllabus are given on the website: **https://jeemain.nta.nic.in/**.

Moreover**, to cater to the decision of different Boards across the country regarding the reduction in the syllabus, the NTA has decided to provide choice in one Section of each Subject of Paper 1 and Part I of Paper 2A and 2B. However, the total number of questions to be attempted will remain the same (Physics -25, Chemistry – 25, and Mathematics – 25), wherever applicable.**

(Refer to Appendix-VI for details).

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CHAPTER 4
ELIGIBILITY AND QUALIFICATIONS

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4.1 Age Limit

For appearing in the JEE (Main) - 2022, there is no age limit for the candidates. The candidates who have passed the class 12/equivalent examination in 2020, 2021, or appearing in 2022 irrespective of their age can appear in JEE (Main) - 2022 examination. However, the candidates may be required to fulfill the age criteria of the Institute(s) in which they are desirous of taking admission.

4.2 List of Qualifying Examinations (QE)

i. The **final examination of the 10+2 system,** conducted by any recognized Central/ State Board, such as Central Board of Secondary Education, New Delhi; Council for the Indian School Certificate Examinations, New Delhi; etc.

ii. **Intermediate or two-year Pre-University** examination conducted by a recognized Board/ University.

iii. **Final examination of the two-year course** of the Joint Services Wing of the National Defence Academy

iv. **Senior Secondary School Examination** conducted by the National Institute of Open Schooling with a minimum of **five** subjects.

v. Any Public School/ Board/ University examination in India or any foreign country is recognized as **equivalent to the 10+2 system** by the **Association of Indian Universities (AIU).**

vi. **Higher Secondary Certificate Vocational Examination.**

vii. **A Diploma recognized by AICTE or a State board** of technical education of at least 3 years duration.

viii. **General Certificate Education** (GCE) examination (London/Cambridge/Sri Lanka) at the **Advanced (A) level.**

ix. **High School Certificate Examination of the Cambridge University or International Baccalaureate Diploma of the International Baccalaureate Office, Geneva.**

x. Candidates who have completed the Class 12 (or equivalent) examination outside India or from a Board not specified above should produce a certificate from the **Association of Indian Universities (AIU)** to the effect that the examination they have passed is equivalent to the Class 12 Examination.

xi. In case the Class 12 Examination is not a public examination, the candidate must have passed at least one public (Board or Pre-University) examination earlier.

4.3 Year of Appearance in Qualifying Examination

Only those candidates who have passed the Class 12/equivalent examination in **2020, 2021, or those who are appearing in Class 12/equivalent examination in 2022**, are eligible to appear in JEE (Main) - 2022.

Candidates who passed the Class 12/equivalent examination in 2019 or before as well as those who will appear in such examination in 2023 or later are not eligible to appear in JEE (Main) - 2022.

4.4 State of Eligibility

State code of eligibility means the code of the State from where the candidate has passed Class XII (or equivalent) qualifying examination by virtue of which the candidate becomes eligible to appear in JEE (Main) 2022. It is important to note that the State code of eligibility does NOT depend upon the native place or the place of residence of the candidate. For example, if a candidate appears for the Class XII (or equivalent) qualifying examination from an Institution situated in New Delhi and is a resident of Noida, Uttar Pradesh, and the candidate's State code of eligibility will be that of Delhi and **NOT** that of Uttar Pradesh.

If a candidate has passed the Class 12 (or equivalent) qualifying examination from one State but appeared for improvement from another State, the candidate's State code of eligibility will be from where the candidate first passed the Class 12 (or equivalent) examination and NOT the State from where the candidate has appeared for improvement.

Candidate passed/appearing for Class 12 from NIOS should select the State of Eligibility according to the State in which the study Centre is located.

For Indian nationals passing the Class 12 (or equivalent) examination from Nepal/Bhutan, the State code of eligibility will be determined based on a permanent address in India as given in the passport of the candidate.

The State code of eligibility of OCI/PIO passing Class 12 (or equivalent) examination in India is at par with Indian nationals. However, OCI/PIO passing the Class 12 (or equivalent) examination from an institution abroad are eligible for Other State quota seats or All India quota seats (but NOT for Home State quota seats) in all NITs, IIEST and Other-CFTIs

CHAPTER 5
RESERVATIONS

5.1 Indian nationals belonging to certain categories are admitted under the seats reserved for them in accordance with the rules prescribed by the Government of India. The categories and the extent of reservation are as follows:

➢ General category belonging to **Economically Weaker Section (GEN- EWS) – 10%** of seats in every course. The benefit of reservation will be given only to those General category candidates who satisfy the conditions given in the **OM No. 20013/01/2018-BC-II dated 17 January 2019,** issued by the Ministry of Social Justice and Empowerment. The criteria for **GEN-EWS** will be as per the prevailing norms and/or notifications of the Government of India.

➢ Other Backward Classes belonging to the **Non-Creamy Layer (OBC- NCL) – 27%** of seats in every course.
   i. OBCs should be listed in the current updated central list of OBCs (**http://www.ncbc.nic.in**).
   ii. OBCs present in the state list but **not** covered in the central list of OBCs (as per the list in **http://www.ncbc.nic.in)** are **NOT** eligible to claim the reservation.
   iii. The criteria for OBC-NCL will be as per the notification of the Government of India.
   iv. Candidates belonging to the creamy layer of OBC are **NOT** entitled to reservation. Such candidates are treated as belonging to the general (GEN), i.e. unreserved category, and they will be eligible only for the OPEN seats – the seats for which all candidates are eligible.
➢ **Scheduled Caste (SC) – 15%** of seats in every course.
➢ **Scheduled Tribe (ST) – 7.5%** of seats in every course.

➢ **Persons with Disability (PwD)** – **5%** seats in each of OPEN, GEN-EWS, OBC-NCL, SC, and ST category seats.
   i. Candidates with at least 40% impairment irrespective of the type of disability i.e., locomotor, visual or SEVERE dyslexic shall be eligible for the benefits of the PwD category.

   ii. Leprosy-cured candidates who are otherwise fit to pursue the courses are also included in this category.

5.1.1. For Candidates claiming to the GEN-EWS category

GEN-EWS certificate (**Annexure-IA**) needs to be uploaded in the Online Application Form of JEE (Main) – 2022 which should have been issued on or after **01 January 2022** in consonance with the latest guidelines of the Government of India. If any GEN-EWS candidate fails to submit the GEN-EWS certificate (issued on or after 01 January 2022) at the time of online registration, the candidate has to upload a declaration [Declaration in Lieu of Gen-EWS Certificate at **Annexure-IB**] to that effect (Reference: **No.F.No.20013/01/2018-BC-II**).

5.1.2 For Candidates claiming to the OBC-NCL category

OBC-NCL certificate (**Annexure-IIA**) needs to be uploaded in the Online Application Form of JEE (Main) – 2022 which should have been issued on or after **01 January 2022**, in consonance with the latest guidelines of the Government of India. If any OBC-NCL candidate fails to upload

the OBC- NCL certificate (issued on or after 01 January 2022) at the time of online registration, the candidate has to upload a declaration [Declaration in Lieu of OBC-NCL Certificate as per **Annexure-IIB**] to that effect. Visit **http://www.ncbc.nic.in** for the latest guidelines and updates on the Central List of State-wise OBCs.

5.1.3. For Candidates claiming to the SC or ST category

Caste (for SC) or tribe (for ST) certificate (**Annexure-III**) needs to be uploaded in the Online Application Form of JEE (Main) – 2022, as per the latest guidelines of the Government of India.

5.1.4 For Candidates claiming to the PwD category

- Physical Disability certificate (Unique Disability Identification (UDID) Certificate or **Annexure-IV (Form-PwD(II))/Annexure-V (Form-PwD(III))/Annexure-VI (Form-PwD(IV)),** whichever is applicable, issued by the notified medical authority needs to be uploaded in the Online Application Form of JEE (Main) – 2022.

- Dyslexic candidates need to submit **Annexure-VII (Form-DYSLEXIC-1) and Annexure-VIII (Form-DYSLEXIC 2)** instead of Annexure-IV (Form-PwD(II))/Annexure-V (Form-PwD(III))/Annexure-VI (Form-PwD(IV)). The certificate must mention '**SEVERE**' under the Dyslexia category to enable the candidate to get the benefit of the PwD category.

  In this case, both **Annexure-VII** (Form-DYSLEXIC-1) **and Annexure-VIII** (Form-DYSLEXIC-2) must be merged in a single pdf file to upload in the Online Application Form of JEE (Main) – 2022.

  5.2 In the case of the Institutes run/aided/recognized by State Governments, the reservation policy of the respective State Governments shall be applicable.

Notes:

1. The benefit of reservation for admission to NITs/IIITs and CFTIs shall be given only to those classes/castes/tribes which are in the respective Central List published by the Government of India from time to time.

2. *The benefit of reservation will be given only to those castes and tribes that are mentioned in the respective central list of corresponding states published by the Government of India (websites: **http://socialjustice.nic.in** and **https://ncst.nic.in**).*

5.3 Provisions relating to Persons with Disability (PwD):

As per Section 2(t) of the RPwD Act, "Persons with Disability (PwD)" means a person with long-term physical, mental, intellectual, or sensory impairment which, in interaction with barriers, hinders his full and effective participation in society equally with others.

According to Section 2(r) of the RPwD Act, 2016, *"persons with benchmark disabilities"* means **a person with not less than forty percent (40%) of a specified disability** where specified disability has

not been defined in measurable terms and includes a person with disability where specified disability has been defined in measurable terms, as certified by the certifying authority.

5.4 Facilities for PwD candidates to appear in the exam

As per the guidelines issued by the Department of Empowerment of Persons with Disabilities (Divyangjan) under the Ministry of Social Justice and Empowerment issued from time to time on the subject: "Written Examination for Persons with Benchmark Disabilities", A candidate with one of the benchmark disabilities [as defined in Section 2(r) of RPwD Act, 2016], holding a Disability Certificate in the format prescribed in **Annexure-IV (Form-PwD(II))/Annexure-V (Form-PwD(III))/Annexure-VI (Form-PwD(IV)) or Annexure-VII (Form-DYSLEXIC-1) and Annexure-VIII (Form-DYSLEXIC 2),** is entitled to the following facilities:

a.   *The facility of Scribe*, in case he/she has a **physical limitation and a scribe is essential to write the examination on his/her behalf**, being so certified in the aforesaid format by a CMO/Civil Surgeon/ Medical Superintendent of a Government Health Care Institution.

b.   *Compensatory time* of **one hour** for examination of **three hours** duration, whether such candidate uses the facility of Scribe or not.

5.5 Services of a Scribe

As per the office memorandum of the Ministry of Social Justice and Empowerment (Reference: **F.No. 34-02/2015-DD-III dated August 29, 2018**), the PwD candidates who are visually impaired OR dyslexic (severe) OR have a disability in the upper limbs OR have lost fingers/hands thereby preventing them from properly operating the Computer Based Test platform may avail the services of a scribe (amanuensis).

The scribe will help the Candidate in reading the questions and/or keying in the answers as per the directions of the Candidate. A scribe will NEITHER explain the questions NOR suggest any solutions.

PwD candidates who desire to avail the services of a scribe need to opt for this during the online registration of JEE (Main) – 2022. A copy of the PwD certificate (**Form-PwD [II/III/IV**, whichever is applicable]) OR a copy of the certificates of Dyslexic Candidate (**Form- DYSLEXIC 1** and **DYSLEXIC 2**), whichever is applicable, must be uploaded at the time of online registration for JEE (Main) - 2022. The formats for the PwD/Dyslexia certificate are given in **Annexure-IV (Form-PwD(II))/Annexure-V (Form PwD(III))/Annexure-IV (Form-PwD(IV))/Annexure-VII** (Form-DYSLEXIC 1) **and Annexure-VIII** (Form-DYSLEXIC 2), whichever is applicable])

It is to be noted that the Scribe will be provided by the National Testing Agency only. The candidates will NOT be allowed to bring his/her own scribe.

If it is found at any stage that a candidate has availed the services of a scribe and/or availed the compensatory time, but does not possess the extent of disability that warrants the use of a scribe and/or grant of compensatory time, the candidate will be excluded from the process of evaluation, ranking,

counseling, and admission. In case such a candidate has already been admitted to any Institution, the admission of the candidate will be cancelled.

The NTA does not guarantee any change in the category or sub-category (PwD status) after the submission of the Online Application Form, and in any case, no change will be entertained by NTA after the declaration of NTA Score for JEE (Main) - 2022. The category/sub-category (PwD status) entered in the JEE (Main) Database by the candidate will be used for the JEE (Advanced). Therefore, the candidates are advised to fill in the category/sub-category column very carefully.

Note:
1. The minimum degree of disability should be **40% (Benchmark Disability)** in order to be eligible for availing reservation for persons with specified disability.
2. The extent of "specified disability" in a person shall be assessed in accordance with the "Guidelines for the purpose of assessing the extent of specified disability in a person included under the **Rights of Persons with Disabilities Act, 2016 (49 of 2016)"** notified in the Gazette of India by the Ministry of Social Justice and Empowerment [Department of Empowerment of Persons with Disabilities (Divyangjan)] on 4 January 2018.
3. No change in the category will be entertained after the last date specified by NTA for JEE (Main) - 2022 Registration.

Candidates must note that the benefit of reservation will be given to them subject to verification of documents. If it is discovered at any stage that a candidate has used a false/fake/incorrect document, or has furnished false, incorrect, or incomplete information, in order to avail the benefit of reservation, then such a candidate shall be excluded from all admission processes. In case such a candidate has already been given admission, the admission shall stand cancelled.

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CHAPTER 6
CHOICE OF CITIES

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The Cities where the JEE (Main) - 2022 will be conducted are given in **Appendix I**. While applying, candidates have to **select any four cities of their choice**. The efforts will be made to allot the city of examination to the candidates in order of choice opted by them in their online Application Form. **However, due to administrative/logistic reasons, a different city can be allotted.**

Choice of Centre Cities will be limited to the State of Permanent Address or State of Present Address only.

In case, there are very few candidates from a City, the NTA reserves the right to merge one, two, or more cities.

The decision of the NTA regarding the allotment of the City/Centre shall be final. No further correspondence or request shall be entertained in such a case.

CHAPTER 7
PARTICULARS TO BE FILLED IN THE ONLINE APPLICATION FORM

The Columns to be filled in the Online Application Form of JEE (Main) – 2022 are as follows. All candidates shall fill up the information as given below:

S. No.	Page	Section	Fields	Remarks
1	Registration Form	Personal Details	Candidate Name	
2			Father Name	
3			Mother Name	
4			Candidate Date of Birth	
5			Gender	
6			Identity Type	
7			Identification Number	
8		Present Address	Address	
9			Locality	Optional
10			City/Town/Village	
11			Country	From Drop Down
12			State	From Drop Down
13			District	From Drop Down
14			Pincode	
15			Email Address	
16			Confirm Email Address	
17			Mobile Number	
18			Confirm Mobile Number	
19			Alternate Contact no	Optional
20		Permanent Address	Address	
21			Locality	Optional
22			City/Town/Village	
23			Country	From Drop Down
24			State	From Drop Down
25			District	From Drop Down
26			Pincode	
27		Choose Password	Password	
28			Confirm Password	
29			Security Question	
30			Security Answer	
31		Security Pin	Security Pin	to be entered as displayed on the screen
32	Application Form	Personal Details	Candidate Name	
33			Candidate Date of Birth	
34			Gender	
35			Father Name	
36			Mother Name	
37			Nationality	

38		State/ UT from where 12th/ Equivalent Passed/ Appearing	
39		Category	
40		If you are a PwD candidate, do you have benchmark disability (40% or more / "severe" where percentage is not defined)?	
41		Type of Disability	only visible if PwD is yes
42		Do you need a scribe (as the criteria given in the Information Bulletin)	only visible if PwD is yes
43		Are you Diabetic?	
44		Place of residence (Rural or Urban)	
45		Annual Family Income	From Drop Down
46		Mode of Preparation	From Drop Down
47		Medium of Schooling in Qualifying Examination	
48	Aadhar Details	Aadhar Details	
49	Exam and Center Details	Applying for	All permissible combinations of Paper 1 and Paper 2
			(From Drop Down)
50		Session(s) of Exam Applying For	
51		Question Paper Medium	From Drop Down
52		Exam State - City Choice 1	From Drop Down
53		Exam State - City Choice 2	From Drop Down
54		Exam State - City Choice 3	From Drop Down
55		Exam State - City Choice 4	From Drop Down
56	Qualification Details (for class 10th or equivalent)	Pass Status	
57		Year of Passing/Appearing	
58		Qualifying Exam	10th or Equivalent (pre-filled)
59		Place of schooling (Rural or Urban)	
60		Type of School/College	From Drop Down
61		Qualifying Examination State of School/College	From Drop Down
62		Qualifying Examination District of School/College	From Drop Down
63		School Board	From Drop Down
64		Result Mode	From Drop Down
65		Maximum Grade Point	visible if the result mode selected is CGPA
66		CGPA Obtained	
67		CGPA	
68		Total Marks	visible if result mode selected is the percentage
69		Obtained Marks	
70		Marks(%)	

71			Roll Number	
72			School/College Name address	
73			School/College Pincode	
74			Pass Status	
75			Year of Passing/Appearing	
76			Qualifying Exam	12th or equivalent (pre-filled)
77			Place of schooling (Rural or Urban)	
78			Type of School/College	From Drop Down
79			Qualifying Examination State	From Drop Down
80			Qualifying Examination District	From Drop Down
81		Qualification Details (for class 12th or equivalent)	School Board	From Drop Down
82			Result Mode	From Drop Down
83			Maximum Grade Point	visible if the result mode selected is CGPA
84			CGPA Obtained	
85			CGPA	
86			Total Marks	visible if result mode selected is the percentage
87			Obtained Marks	
88			Marks(%)	
89			Roll Number	
90			School/College Name address	
91			School/College Pincode	
92			Are you a Twin	
93		Additional Details	Name of other Brother/Sister as per Class X Certificate	only visible if 'Are you a Twin' is yes
94			Roll Number of Class 10th or its equivalent of the Twin	only visible if 'Are you a Twin' is yes
95			Father Qualification	Mandatory
96			Father Occupation	Mandatory
97		Parents Income Details	Mother Qualification	Mandatory
98			Mother Occupation	Mandatory
99			Guardian Qualification	Mandatory
100			Guardian Occupation	Mandatory
101	Document upload	Upload images	Candidate's photograph	The size of the scanned photograph should be between 10 kb to 200 kb
102			Candidate's signature	The size of the scanned signature should be between 4 kb to 30 kb
103			Category certificate	The size of the scanned copy of the Category certificate (SC/ST/OBC/EWS etc.) should be in pdf between 50kb to 300kb
104			PwD certificate	The size of the scanned copy of the PwD certificate should be in pdf between 50 kb to 300 kb

CHAPTER 8
ADMIT CARD

e-Admit Card

The e-Admit Card would be issued provisionally to the candidates through the NTA website: **https://jeemain.nta.nic.in/**, subject to the fulfillment of the eligibility conditions and receipt of the prescribed application fee by NTA.

The candidate has to download the Admit Card from the NTA website. The candidate will appear in the examination at the given Centre on the date and shift/timing as indicated in his/her e-Admit Card.

No candidate will be allowed to appear at the examination Centre, on the date and shift/time other than that allotted to him/her in his/her Admit Card.

In case a candidate is unable to download his/her Admit Card from the website, he/she should approach the NTA Help Line Number: **011-40759000 between 10.00 am to 5.00 pm.**

The candidates are advised to read the instructions on the Admit Card carefully and strictly follow them during the examination.

In case of any discrepancy in the particulars of the candidate or his/her photograph and signature shown in the e-Admit Card and Confirmation Page, the candidate may immediately **approach the NTA Help Line between 10.00 am to 5.00 pm. In such a case, the candidate would appear in the examination with the already downloaded Admit Card. However, NTA will take necessary action to make corrections in the record later.**

The Admit Card for Session 1 of the examination may be available for download in the second week of March 2022. The timing for downloading the Admit Card for subsequent Sessions of the exam will be announced on the NTA website (https://jeemain.nta.nic.in/)

> *Note:*
> a. *The Candidates may please note that Admit Cards will not be sent by post.*
> b. *In no case, the duplicate Admit Card for Joint Entrance Examination (Main) 2022 would be issued at the Examination Centres.*
> c. *The candidates must not mutilate the Admit Card or change any entry made therein.*
> d. *Candidates are advised to preserve their Admit Cards in good condition for future reference.*
> e. *No Admit Card shall be issued to the candidates whose applications are found to be incomplete for any reasons (including indistinct/ doubtful photographs/unsigned Applications) or who do not fulfill the eligibility criteria for the examination.*
> f. *Issue of Admit Cards, however, shall not necessarily mean acceptance of eligibility which shall be further scrutinized at subsequent stages of the admission process.*

CHAPTER 9
SCHEDULE OF EXAMINATION

Schedule of Examination

Dates of Examination	*Session 1: 16 to 21 April 2022* *Session 2: 24 to 29 May 2022* (Exact date, shift, and city of examination for Paper 1: B.E./B. Tech and Paper 2A: B. Arch and Paper 2B: B. Planning will be made available to the Candidates on their Admit Cards)		
Mode of Examination	**Paper 1: B.E./B.Tech**	"Computer Based Test (CBT)" mode only	
	Paper 2A: B.Arch.	Part-I: Mathematics and Part-II: Aptitude Test in Computer Based Test (CBT) mode only	
		Part-III: Drawing Test in "Pen and Paper" (offline) mode, to be attempted on the Drawing sheet of A4 size.	
	Paper 2B: B. Planning	Part-I: Mathematics Part-II: Aptitude Test, and Part-III: Planning Based MCQ's in "Computer Based Test (CBT)" mode only	
Timing of Examination	Duration of Examination	**First Shift**	**Second Shift**
	For 3 Hours	09.00 a.m. to 12.00 Noon (IST)	03.00 p.m. to 06.00 p.m. (IST)
	For 3 Hours 30 Minutes	09.00 a.m. to 12.30 p.m. (IST)	03.00 p.m. to 06.30 p.m. (IST)
Entry in the Examination Centre/Hall/Room, frisking, biometric registration/ record of manual attendance by Invigilator, document verification/cross-checking of Admit Card, signature, and photo match to be completed by Invigilator, etc.	07.00 a.m. to 08.30 a.m.		01.00 p.m. to 02.30 p.m.
Instructions by the Invigilator(s)	08.30 a.m. to 08.50 a.m.		02.30 p.m. to 02.50 p.m.
Candidates log in to read instructions	08.50 a.m.		02.50 p.m.
Test Commences	**09.00 a.m.**		**03.00 p.m.**

Note: *Those appearing for B.Arch. and B.Planning (both), will have the duration of examination 3:30 hrs.*

CHAPTER 10

IMPORTANT INSTRUCTIONS FOR THE CANDIDATES

1. Candidates are advised to report at the Examination Center well in time i.e. 2 hours before commencement of the examination.

2. Candidates should take their seats immediately after the opening of the Examination Hall. If the candidates do not report in time due to any reason i.e. traffic jam, train/bus delay, etc, they are likely to miss some of the important instructions to be announced in the Examination Rooms/Halls. The NTA shall not be responsible for any delay.

3. The candidate must show, on-demand, the Admit Card downloaded/printed from the NTA website for admission in the examination room/hall. The Test Centre Staff on duty is authorized to verify the identity of candidates and may take steps to verify and confirm the identity credentials. Candidates are requested to extend their full cooperation. A candidate who does not possess a valid Admit Card and authorized Photo ID shall not be permitted to take the examination under any circumstances by the Centre Superintendent.

4. A seat indicating Roll Number will be allotted to each candidate. Candidates should find and sit in their allocated seats only. In case a candidate ventures to change his/her seat and does not sit on the seat allotted to him/her could face cancellation of candidature. No plea would be entertained in this regard.

5. The candidate should ensure that the Question Paper available on the computer is as per his/her opted subject indicated in the Admit Card. In case, the subject of the Question Paper is other than his/her opted subject, the same may be brought to the notice of the Invigilator concerned.

6. The candidates may approach the Centre Superintendent/Invigilator in the room for any technical assistance, first aid emergency, or any other information during the course of the examination.

   For any queries or issues regarding Computer Based Test, the candidates may contact on Helpline Numbers available on Joint Entrance Examination (Main) website.

7. In case a candidate, by furnishing false information, appears in more than one shift/date, his candidature will be cancelled and his result will not be declared.

8. For those who are unable to appear on the scheduled date of test for any reason, re-test shall not be held by the NTA under any circumstances.

   Note: Candidates shall appear at their own cost at the Centre on the date and shift as indicated in their Admit Card issued by the NTA. Under no circumstances the choice of cities for the Centre and shift provided in the Admit Card shall be changed.

Candidates MUST bring the following documents on the day of examination at the test centre. Candidates who will not bring these will not be allowed to sit in the examination.

a. *Print copy of Admit Card along with Self Declaration (Undertaking) downloaded from the NTA Website (a clear printout on A4 size paper) duly filled in.*

b. *One passport size photograph (same as uploaded on the Online Application Form) for pasting on the specific space in the Attendance Sheet at Centre during the examination.*

c. *Any one of the authorized photo IDs (must be original, valid, and non-expired) – School Identity Card/ PAN card/ Driving License/ Voter ID/ Passport/ Aadhaar Card (With photograph)/E-Aadhaar with photograph/ Ration Card with photograph/ Class 12 Board Admit Card with photograph/ Bank Passbook with Photograph.*

d. *PwD certificate issued by the authorized medical officer, if claiming the relaxation under PwD category*

<div align="center">*or*</div>

***PwD Certificate regarding physical limitation in an examination to write** as per **Annexures** given in Information Bulletin, if claiming the relaxation under PwD category.*

e. *A simple transparent Ball Point Pen.*

ROUGH WORK

All calculations/writing work is to be done only in the Rough Sheet provided at the Test Centre in the Examination Room/Hall and on completion of the test, candidates must hand over the Rough Sheets to the Invigilator on duty in the Room/Hall.

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CHAPTER 11

UNFAIR MEANS PRACTICES AND BREACH OF EXAMINATION RULES

</div>

11.1 Definition

Unfair Means practice is an activity that allows a candidate to gain an unfair advantage over other candidates. It includes, but is not limited to:

a) Being in possession of any item or article which has been prohibited or can be used for unfair practices including any stationery item, communication device, accessories, eatable items, ornaments, or any other material or information relevant or not relevant to the examination in the paper concerned;

b) Using someone to write examination (impersonation) or preparing material for copying;

c) Breaching examination rules or any direction issued by NTA in connection with JEE (Main) - 2022 examination from time to time;

d) Assisting other candidates to engage in malpractices, giving or receiving assistance of any kind directly or indirectly or attempting to do so;

e) Contacting or communicating or trying to do so with any person, other than the Examination Staff, during the examination time in the Examination Centre;

f) Threatening any of the officials connected with the conduct of the examination or threatening any of the candidates;

g) Using or attempting to use any other undesirable method or means in connection with the examination;

h) Manipulation and fabrication of online documents viz. Admit Card, Rank Letter, Self-Declaration, etc.;

i) Forceful entry in /exit from Examination Centre/Hall;

j) Use or attempted use of any electronic device after entering the Examination Centre;

k) Affixing/uploading of wrong/morphed photographs/signatures on the Application Form/Admit Card/Proforma;

l) Creating obstacles in smooth and fair conduct of the examination.

m) Any other malpractices declared as Unfair Means by the NTA.

11.2 Punishment for using Unfairmeans practices

During the course of, before, or after the examination if a candidate indulges in any of the above or similar practices, he/she shall be deemed to have used unfair practices and booked under UNFAIR MEANS (U.F.M.) case. **The candidate would be debarred for 3 years in the future and shall also be liable** *for criminal action* **and /or any other action as deemed fit.**

11.3 Cancellation of Result

The result of **JEE (Main) - 2022** of the candidate(s) who indulge in Unfair means Practices will be cancelled and will not be declared. Similarly, the result of those candidates who appear from the Centre other than the one allotted to them or allow another candidate/person to write the exam on his behalf will be cancelled. No plea will be entertained in this regard.

CHAPTER 12
DISPLAY OF ANSWER KEY FOR CHALLENGE

12.1 Display of Answer Key for Challenges

1. The NTA will display Provisional Answer Key of the questions on the NTA website: **https://jeemain.nta.nic.in/,** with a Public Notice, issued to this effect on the said website, to provide an opportunity to the candidates to challenge the Provisional Answer Keys with a non-refundable online payment of **₹ 200/-** per question challenged as processing charges. The provisional Answer Keys are likely to be displayed for two to three days.

2. Only paid challenges made during stipulated time through key challenge link will be considered. Challenges without justification/evidence and those filed on any other medium other than the prescribed link will not be considered.

3. The NTA decision on the challenges shall be final and no further communication will be entertained. NTA will not inform the Candidates individually about the outcome of the challenges made.

4. The subject experts will examine all the challenges received and then a final answer key will be displayed and declared.

5. **The result will be compiled based on the final answer key declared. No grievance with regard to answer key(s) after the declaration of result/NTA Score of JEE (Main) - 2022 will be entertained.**

12.2 Display of Question Paper attempted and Recorded Responses

The NTA will display the recorded responses and Question Paper attempted by the candidates on the NTA website **https://jeemain.nta.nic.in/** prior to the declaration of the result/NTA Score. The recorded responses are likely to be displayed for two to three days.

CHAPTER 13
JEE (MAIN) NTA SCORE FOR B.E./B.TECH, B.ARCH, AND B.PLANNING

13.1 JEE (Main) NTA Score for B.E./B.Tech, B.Arch, and B.Planning

a) Evaluation of multiple-choice questions of B.E./B.Tech, B.Arch, and B.Planning will be carried out using final answer keys and the raw (actual) marks obtained by a candidate will be considered further for computation of the result of JEE (Main) - 2022.

b) For multi-shift papers, raw (actual) marks obtained by the candidates in different shifts/sessions will be converted to NTA Score.

c) **The detailed procedure for the compilation of the NTA Score is available on NTA Website and also in the Appendix-V of the Information Bulletin.**

13.2 Compilation and display of Result of Paper-1 (B.E./B.Tech.) of JEE(Main) - 2022:

a) Compilation and display of NTA Score for Session 1 of Paper-1 (B.E. /B.Tech.):
Since Session 1 of JEE (Main) - 2022 B.E./B.Tech will be conducted in multi-shifts, NTA scores will be calculated corresponding to the raw (actual) marks obtained by a candidate. The calculated NTA scores for all the shifts will be declared on the NTA website(s). This will comprise of the NTA scores for each of the three subjects (Mathematics, Physics, and Chemistry) and the total in B.E./B.Tech of Session 1 of Paper 1 of JEE (Main) – 2022.

b) Compilation of NTA Score for Session 2 of Paper 1 (B.E. /B.Tech.):
Similarly, Session 2 of JEE (Main) - 2022 B.E./B.Tech will be conducted in multi-shifts, NTA scores will be calculated corresponding to the raw (actual) marks obtained by a candidate. The calculated NTA scores for all the shifts will comprise the two NTA scores for each of the three subjects (Mathematics, Physics, and Chemistry) and the total in B.E./B.Tech of Session 2 of Paper 1 of JEE (Main) – 2022.

c) Compilation and display of result including overall Merit List/Ranking of Paper 1 (B.E. /B.Tech.):
The NTA scores for each of the candidates in Total in B.E./B.Tech for Session 1 as well as for Session 2 of JEE (Main) - 2022 will be merged for compilation of results and preparation of overall Merit List/Ranking. The best of the two NTA Scores (Total) will be considered for further processing for those candidates who appeared in both sessions.

In case of a tie, i.e. when two or more candidates obtain equal Total NTA Score in JEE (Main)-2022, inter-se merit of such candidates shall be determined as per **"Method of resolving ties"** given in Chapter 3 for Paper 1.**[3.4 (5)]**

The NTA scores and rank of B.E./B.Tech of JEE (Main) – 2022 for all candidates who appeared in Session 1 as well as in Session 2 for JEE (Main) - 2022 will be declared on the NTA website(s). This shall comprise of the NTA scores obtained by the candidate in Session 1, NTA scores obtained in

Session 2, and NTA scores for those who appeared in both sessions (**best of the two Total NTA scores**) along with the status of those who qualify for appearing in JEE (Advanced) – 2022 provided and subject to other conditions of eligibility being met. The rank shall comprise **All India rank** and **All India category rank**.

13.3 Compilation and display of Result of Paper 2A (B. Arch) or Paper-2B (B. Planning) of JEE (Main)-2022:

a) Compilation and display of NTA Score for Session 1 of Paper 2A (B. Arch) or Paper 2B (B. Planning):

Since Session 1 of JEE (Main) - 2022 Paper-2A (B. Arch) or Paper-2B (B. Planning) will be conducted in multi-shifts, NTA scores will be calculated corresponding to the raw (actual) marks obtained by a candidate. The calculated NTA scores for all the shifts will be declared on the NTA website(s). This will comprise of the NTA scores for each of the three parts (Mathematics, Aptitude Test and Drawing Test or Planning Based Test) and the total in Paper 2A (B. Arch) or Paper 2B (B. Planning) of Session 1 of JEE (Main) – 2022.

b) Compilation of NTA Score for Session 2 of Paper 2A (B. Arch) or Paper 2B (B. Planning):

Similarly, Session 2 of JEE (Main) - 2022 Paper 2A (B. Arch) or Paper 2B (B. Planning) will be conducted in multi-shifts, NTA scores will be calculated corresponding to the raw (actual) marks obtained by a candidate. The calculated NTA scores for all the shifts will comprise of the NTA scores for each of the three parts (Mathematics, Aptitude Test, and Drawing Test or Planning Based Test) and the total in Paper 2A (B. Arch) or Paper 2B (B. Planning) of Session 2 of JEE (Main) – 2022.

c) Compilation and display of result including overall Merit List/ Ranking of Paper 2A (B. Arch) or Paper 2B (B. Planning):

The NTA scores for each of the candidates in Total in Paper 2A (B. Arch) or Paper 2B (B. Planning) for Session 1 as well as for Session 2 of JEE (Main)-2022 will be merged for compilation of results and preparation of overall Merit List/Ranking. The best of the two NTA Scores (Total) will be considered for further processing for those candidates who appeared in both sessions.

In case of a tie, i.e. when two or more candidates obtain equal Total NTA Score in JEE(Main)-2022,inter-se merit of such candidates shall be determined as per **"Method of resolving ties"** given in Chapter- 3 for Paper-2A (B. Arch) or Paper-2B (B. Planning). [3.4 (5) Part 2].

The NTA scores and rank of Paper-2A (B. Arch) or Paper-2B (B. Planning) of JEE (Main) – 2022 for all candidates who appeared in Session 1 as well as in Session 2 for JEE (Main) - 2022 will be declared on the NTA website(s). This shall comprise of the NTA scores obtained by the candidate in Session 1, NTA scores obtained in Session 2, and NTA scores for those who appeared in both sessions (best of the two Total NTA scores). The rank shall comprise **All India rank** and **All India category rank.**

A copy of the Final Scorecard of JEE (Main) – 2022 will be sent to the registered e-mail address of the Candidates.

> *Note:*
> 1. *The All India Rank shall be compiled and declared after conduct of Session 2 of JEE (Main) - 2022 Examination.*
> 2. *No Score/Rank Card will be dispatched to the candidates and the candidates are advised to download their Score/Rank Cards from the JEE (Main) website: www.nta.ac.in/, https://jeemain.nta.nic.in/ only.*
> 3. *There shall be no provision for re-valuation/re-checking of the Score. No correspondence in this regard shall be entertained.*
> 4. *Only the All India Rank (AIR) is used for admissions through Central Seat Allocation Board (CSAB)/Joint Seat Allocation Authority (JoSAA) to NITs/ IIITs/ CFTIs/ SFIs/ Others.*
> 5. *All participating Institutions that do not use the Centralized Seat Allocation Process will prepare their own ranking based on the performance in JEE (Main) - 2022 and other criteria as decided by them.*
> 6. *The National Testing Agency (NTA) is an examination conducting body and not an admission giving authority. Therefore, NTA does not collect the information regarding the total number of seats available in the institutions, or the eligibility and reservation criteria followed by the institutions.*

13.4. Re-Evaluation/Re-Checking of Result

There shall be no re-evaluation/re-checking of the result. No correspondence in this regard shall be entertained.

13.5. Use of Scores of JEE (Main) – 2022 by other Organizations

The merit list/scores/result of **JEE (Main) – 2022** may be utilized by other Entities of Central/State Governments with their eligibility criteria/norms/applicable regulations/guidelines/rules.

For the Academic year 2022-23, Dr. APJ Abdul Kalam Technical University (AKTU), Lucknow, and Madan Mohan Malviya University of Technology, Gorakhpur have been authorized to use the score sheet of JEE (Main) for admission to the B.Tech./M.Tech. (Integrated)/B.Arch. Courses in their affiliated colleges across the State.

For the academic year 2022-23, admissions under MEA (Welfare) quota seats shall be based on the Joint Entrance Examination (Main).

CHAPTER 14
ADMISSION

Admission to NITs, IIITs, CFTIs, SFIs, State Engineering Colleges in the Participating States, and   Other Participating Institutions.

14.1 Eligibility for Admission to NITs, IIITs, and CFTIs participating through Central Seat Allocation Board (CSAB):

Admission to B.E. / B.Tech / B.Arch / B.Planning. Courses in NITs, IIITs, and CFTIs participating through Central Seat Allocation Board will be based on All India Rank subject to the conditions as decided by the CSAB. For eligibility regarding details, candidates may refer to the website **https://csab.nic.in/.**

The eligibility criteria decided by the Council of Architecture for admission to B.Arch. course other than NITs, IIITs, CFTIs:

"No candidate shall be admitted to Architecture course unless she/he has passed an examination at the end of the qualifying examination with 50% marks in Physics, Chemistry, and Mathematics and also 50% marks in aggregate of the qualifying examination".

For B. Planning, the candidates should have passed the qualifying examination with 50 % marks in Mathematics and 50% marks in aggregate of the qualifying examination.

Subject combinations required in the qualifying examination for admission to B.E./B.Tech, B. Arch, and B. Planning Courses in NITs, IIITs, and other CFTIs shall be as under.

Course	Required Criteria based on Class 12/ Equivalent qualifying Examination
B.E/B.Tech.	Passed qualifying examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry/Biotechnology/Biology/ Technical Vocational subjects.
B.Arch.	Passed qualifying examination with Mathematics, Physics, Chemistry
B.Planning	Passed qualifying examination with Mathematics

The Admission Policy, as announced by the Competent Authority of the admitting institutes shall be followed at the time of admission. The Candidates are advised to satisfy themselves about their Eligibility for Admission from the respective websites of admitting authorities.

For the Academic Year (2022-23), Dr. APJ Abdul Kalam Technical University, Lucknow and Madan Mohan Malviya University of Technology , Gorakhpur will use the score sheet of JEE (Main) for admission to B. Tech, B. Arch, M. Tech (Integrated) Courses in its affiliated Colleges across the State of Uttar Pradesh.

14.2 Eligibility for Admission to Other Institutions

The above-mentioned policy could also be adopted by other Technical Institutions participating in counseling through JoSAA/CSAB. In case a State opts to admit students to the engineering Colleges affiliated with State Universities, the State may prepare a separate rank list based on criteria decided by them.

For all admission-related procedures/queries, the candidates are advised to refer to the website of JoSAA, Central Seat Allocation Board (CSAB), or the concerned State Government/Institute after the declaration of result/ranks of JEE (Main) - 2022.

> **The letters/e-mails/grievances/queries/RTI applications/Court cases pertaining to admission related matters/procedures will not be entertained by NTA. The same may be addressed to the concerned Counseling/Authorities/Admitting Institutions.**

14.3 Seat Allocation Process and Admission Procedure

Candidates shall be offered admission based on their choices and All India Ranks of JEE (Main) - 2022 through a Seat Allocation Process to be announced later CSAB/JoSAA. The authentication/verification of relevant documents in support of identification, date of birth, qualifying examination, State of eligibility, category, and disability (if any) of the qualifying candidates would be done at the time of Seat Allocation/ admission process. On failing to produce any of the authentic documents, the candidate may not be considered for admission.

Gen-EWS, SC, ST, OBC, and PwD candidates will be required to produce the original certificate as per prescribed formats issued by the competent authority at the time of the Seat Allocation/admission process failing which they will not be considered for admission.

14.4 Eligibility Criteria for Indian Nationals Appearing in JEE (Advanced) - 2022

(Please refer to JEE (Advanced) website https://jeeadv.ac.in/ for the latest information)

All the candidates must simultaneously fulfill each one of the following to appear for JEE (Advanced) - 2022.

Performance in JEE (Main) - 2022:

Candidates should be among the top 2,50,000 successful candidates (including all categories) in B.E./B.Tech. Paper of JEE (Main) - 2022.

Number of Attempts:

A candidate can attempt JEE (Advanced) a maximum of two times in two consecutive years.

Appearance in Class 12 (or equivalent) examination*:

A candidate should have appeared for the Class 12 (or equivalent) examination for the first time in either 2021 or 2022 with the subjects Physics, Chemistry, and Mathematics. Candidates who had appeared in the Class 12 (or equivalent) examination, for the first time in 2020 or earlier, are NOT eligible to appear in JEE (Advanced) 2022 unless covered by the one-time special measure set out below.

*By appearance in Class 12 (or equivalent) examination, it is meant that the Board concerned declared the result for that year irrespective of whether or not the examination was conducted.

It will be considered as an appearance even if the result of a particular candidate got withheld. Moreover, if the examination Board of Class 12 (or equivalent) declared the results for the academic year 2019-20 after 15 October 2020, then the candidates of that board who appeared for their Class XII exam in 2020 are also eligible to appear in JEE (Advanced) 2022, provided they meet all the other eligibility criteria. In case the examination Board of Class 12 (or equivalent) declared the results for the academic year 2019-20 before 15 October 2020 but the result of a particular candidate was withheld, then the candidate will not be eligible to appear in JEE (Advanced) 2022.

Relaxation in Criteria as a Special Case for JEE (Advanced) - 2022

One-time measure for those who passed the Class 12 (or equivalent) examination in 2020/2021 AND successfully registered for JEE (Advanced) 2021 but did NOT appear.

Candidates who appeared in Class 12 (or equivalent) examination for the first time in 2020 OR 2021 AND successfully registered for JEE (Advanced) - 2021 but were absent in BOTH the papers, i.e., Paper 1 and Paper 2, of JEE (Advanced) 2021, are eligible to directly appear for JEE (Advanced) 2022. However, they must successfully register for the JEE (Advanced) 2022 in the online registration portal and pay the registration fee. Further, these candidates would be considered in addition to and not as part of the total number of candidates who would qualify from JEE (Main) - 2022 for appearing in JEE (Advanced) - 2022.

This is a one-time measure valid only for JEE (Advanced) 2022 due to the ongoing pandemic.

These candidates must confirm their eligibility for appearing in JEE (Advanced) - 2022 by visiting the official website (**https://jeeadv.ac.in**) and filling in the requisite information during registration. This one-time measure does NOT apply to candidates who appeared for their Class 12 exam for the first time before 2020.

One-Time Measure for those Who Passed Class 12 in 2020

As a one-time special measure due to the ongoing pandemic, candidates who appeared in class 12th (or equivalent) examination in 2020 for the first time are also eligible to appear for JEE (Advanced) 2022 PROVIDED they satisfy the following two criteria simultaneously: (i) The candidate should have appeared ONLY ONCE for JEE (Advanced), either in the year 2020 or 2021; OR, have NOT appeared in any paper in both JEE (Advanced) 2020 and JEE (Advanced) 2021. (ii) These candidate(s) should appear/should have appeared in JEE (Main) 2022 and meet the cut-off score of

the top 2,50,000 successful candidates (including all categories) for qualifying for JEE (Advanced) 2022 in their respective category.

This one-time measure is applicable to ONLY those candidates for whom the appearance in JEE (Advanced) 2022 will be their first or second attempt and does NOT apply to candidates who appeared for their class 12th exam for the first time before 2020. No candidate will be allowed to appear in JEE (Advanced) more than two times. Further, these candidates would be considered in addition to and not as part of the total number of candidates who would qualify from JEE (Main) - 2022 for appearing in JEE (Advanced) 2022.

This is a one-time measure valid only for JEE (Advanced) - 2022.

These candidates must confirm their eligibility for appearing in JEE (Advanced) 2022 by visiting the official website (**https://jeeadv.ac.in**) and filling in the requisite information.

Eligibility criteria for foreign national candidates can be found at: **https://jeeadv.ac.in/foreign.html.**

Note: For clarifications regarding the JEE (Advanced) – 2022, candidates are requested to contact the organizing body of JEE (Advanced) – 2022. NTA will not entertain the queries related to JEE (Advanced).

CHAPTER 15
TEST PRACTICE CENTRES

15.1 Test Practice Centres (TPCs)

The Ministry of Education has mandated the NTA to set up, establish and create a network of Test Practice Centres for candidates, especially in remote and rural areas to enable them to practice and be comfortable in taking a Computer Based Test (CBT). This facility is completely free of cost. Candidates can register online (on the NTA website) where they are provided a convenient TPC near their location to practice on a given computer node. This facilitates the process of being able to take a Computer Based Test (CBT).

The entire experience of using a computer is close to the actual experience of taking a CBT. All efforts are made to provide practice tests and questions so that candidates can familiarize themselves with logging into the system, go through the detailed instructions regarding the test, use the mouse or numeric keyboard on-screen (virtual) for attempting each question, scroll down to the next question, navigate between questions, review and edit their options and submit answer **(refer to Appendix-IV for details)**.

CHAPTER 16
COMMON SERVICES CENTRES

16.1 Common Services Centres/Facilitation Centres

Candidates who are not well conversant and submitting face difficulties in the online application due to various constraints can use the services of Common Services Centre, Ministry of Electronics and Information Technology, Government of India under the Digital India initiatives of Hon'ble Prime Minister. The Common Services Centre (CSC) scheme is a part of the ambitious National e-Governance Plan (NeGP) of the Government of India and is managed at each village panchayat level by a Village Level Entrepreneur (VLE).

There are more than 1.5 lakhs Common Services Centres (CSC) across the country which will provide the desired support to candidates from urban as well as rural areas in online submission of Application Form and payment of fee through e-wallet. The list of the Common Services Centre is available on the website: www.csc.gov.in. To know the nearest Common Services Centre, please open the link - Find My Csc (**https://findmycsc.nic.in/csc/**).

CHAPTER 17
NATIONAL TEST ABHYAS

17.1 National Test Abhyas

The National Testing Agency (NTA), India's premier autonomous testing organization for conducting entrance examinations for admission in higher education institutions, launched a mobile app called the **"National Test Abhyas"** - to enable candidates to take mock tests for various competitive exams such as JEE Main, NEET, UGC-NET, and other exams under the NTA's purview. The app had been launched to facilitate candidates' access to high-quality mock tests in the safety and comfort of their homes since NTA's Test-Practice Centers (TPCs) were closed during the ongoing COVID-19 pandemic.

With this facility for the candidates, India has taken the lead in restoring a semblance of normalcy in one more crucial area – education – even as we tackle these unprecedented times that have led to significant changes in life around the world.

Candidates across the country can use the App to access high-quality tests, free of cost, in a bid to be fully prepared for the upcoming JEE (Main), NEET (UG), and other competitive exams. The tests can be easily downloaded and taken off-line, thus accommodating candidates with low bandwidth internet connections.

The app works on Android-based and iOS smartphones and tablets and can be downloaded from Google Play Store or App Store. Once candidates download the app, they simply need to sign-up or register with some basic details, create a free account, and then start accessing mock tests free of cost for their selected examination(s).

In addition to that NTA has developed an extensive support system at http://nta.ac.in/abhyas/help.

The National Test Abhyas is available on the website: https://www.nta.ac.in/Abhyas and Play Store: https://play.google.com/store/apps/details?id=com.abhyas.nta.com

CHAPTER 18
MISCELLANEOUS

18.1 Query Redressal System (QRS)

National Testing Agency (NTA) has established a Query Redressal System (QRS), an online web-enabled system developed by NTA. QRS is the platform based on web technology that primarily aims to enable submission of queries/grievances by the Registered Candidate(s) of JEE (Main)-2022 Examination with (24x7) facility for speedy and favorable redressal of the queries/grievances. A Unique Registration Number will be generated for tracking the status of the queries/grievances.

The Registered Candidate(s) are advised to use the online facility for a speedy response.

18.2 Correspondence with NTA

All the correspondence should preferably be addressed by e-mail. The email query shall be addressed only if it is not anonymous and contains the name, postal address, and contact number of the sender. An email containing vague or general queries and other queries as contained in the Information Bulletin shall not be entertained. Queries shall not be entertained from a person claiming to be representatives, associates, or officiates of the applicant candidate. The following information shall not be revealed by phone or email:

a. Internal documentation/status.
b. The internal decision-making process of NTA. Any claim/counterclaim thereof.
c. Dates and venue of internal meetings or name of the staff/officers dealing with it.
d. Any information which cannot be revealed in the opinion of NTA.

18.3 Weeding Out Rules

The record of Joint Entrance Examination JEE (Main) - 2022 would be preserved up to **90 days from the date of declaration of result.**

18.4 Legal Jurisdiction

All disputes pertaining to the conduct of JEE (Main) – 2022 Examination including Results shall fall within the jurisdiction of Delhi only. The Director (Admin) of the NTA shall be the official by whose designation the NTA may sue or be sued.

Government of …………………………….

(Name and Address of the authority issuing the certificate)

INCOME AND ASSET CERTIFICATE TO BE PRODUCED BY ECONOMICALLY WEAKER SECTIONS

Certificate No._____ Date:_____

1.   This is to certify that Shri/Smt./Kumari _____ _____son/daughter/wife of_____ _____permanent resident of_____, Village/Street _____Post Office _____ District _____ in the State/Union Territory_____Pin Code_____

whose photograph in attested below belongs to Economically Weaker Sections, since the gross annual income* of his/her **"family"**** is below Rs. 8 lakh (Rupees Eight Lakh only) for the financial year 2021-2022. His/her family does not own or possess any of the following assets***:

I.   5 acres of agricultural land and above;
II.   Residential flat of 1000 sq. ft. and above;
III.   Residential plot of 100 sq. yards and above in notified municipalities;
IV.   Residential plot of 200 sq. yards and above in areas other than the notified municipalities.

2.   Shri/Smt./Kumari_____belongs to the caste which is not recognized as a Schedule Caste, Schedule Tribe, and Other Backward Classes (Central List).

Signature with the seal of Officer _____

Name _____ Designation _____

Recent Passport size attested photograph of the applicant

The income and assets of the families as mentioned would be required to be certified by an officer not below the rank of Tehsildar in the States/UTs.

* **Note1:** Income covered all sources i.e. salary, agricultural, business, profession, etc.
  ** **Note2:** The term **"Family"** for this purpose includes the person, who seeks the benefit of reservation, his/her parents and siblings below the age of 18 years as also his/her spouse and children below the age of 18 years.

  *** **Note3:** The property held by a **"Family"** in different locations or different places/cities have been clubbed while applying the land or property holding test to determine EWS status.

DECLARATION BY THE CANDIDATE IN LIEU OF GEN-EWS CERTIFICATE

Name of the candidate: _____

Address: _____

_____

_____

Passport size Photograph of the Candidate

Application Number of JEE (Main) - 2022:

Mobile No: _____ Email: _____

I understand that as per the new guideline from the Ministry of Personnel, Public Grievances and Pensions, GoI, I am required to submit a GEN-EWS certificate issued on or after **1 January 2022**.

Since I have not been able to collect the said certificate on time, I may kindly be allowed to write **JEE (Main) - 2022** provisionally. I hereby declare that I will upload a fresh certificate (issued on or after **1 January 2022**) at the time of reporting after seat allocation.

I understand that inability to upload the same by the given date and time will lead to the withdrawal of the GEN-EWS benefit. I also understand that, if qualified, my category will be adjusted accordingly in the Common Rank List.

Signature of Father/Mother

Name: Date:

Signature of Applicant   Date:

Annexure-IIA

OBC-NCL Certificate Format

FORM OF CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES (NCL)* APPLYING FOR ADMISSION TO CENTRAL EDUCATIONAL INSTITUTIONS (CEIs), UNDER THE GOVERNMENT OF INDIA

This is to certify that Shri/Smt./Kum**_____Son/ Daughter** of Shri/Smt.** _____ of Village/ Town** _____ District/Division**_____in the State/Union Territory _____ belongs to the _____ community that is recognized as a backward class under Government of India***, Ministry of Social Justice and Empowerment's Resolution No.

_____ dated_____****

Shri/Smt./Kum._____and/or _____ his/her family ordinarily reside(s) in the_____District/Division of the_____State/Union Territory. This is also to certify that **he/she does NOT belong to the persons/sections (Creamy Layer)** mentioned in Column 3 of the Schedule to the Government of India, Department of Personnel & Training O.M. No. 36012/22/93- Estt. (SCT) dated 08/09/93 which is modified vide OM No. 36033/3/2004 Estt. (Res.) dated 09/03/2004, further modified vide OM No. 36033/3/2004-Estt. (Res.) dated 14/10/2008, again further modified vide OM No.36036/2/2013-Estt (Res) dated. 30/05/2014, and again further modified vide OM No. 36033/1/2013-Estt (Res) dated. 13/09/2017.

District Magistrate /
Deputy Commissioner /

Any other Competent Authority

Dated:

Seal

* **Visit http://www.ncbc.nic.in for the latest guidelines and updates on the Central List of State-wise OBCs.**
** **Please delete the word(s) which are not applicable.**
*** **As listed in the Annexure (for FORM-OBC-NCL)**
**** **The authority issuing the certificate needs to mention the details of the Resolution of Government of India, in which the caste of the candidate is mentioned as OBC.**

NOTE:

(a) The term 'Ordinarily resides' used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.

(b) The authorities competent to issue Caste Certificates are indicated below:

(I) District Magistrate/ Additional Magistrate/ Collector/ Deputy Commissioner/ Additional Deputy Commissioner/ Deputy Collector/ Ist Class Stipendiary Magistrate/ Sub-Divisional magistrate/ Taluka Magistrate/ Executive Magistrate/ Extra Assistant Commissioner (not below the rank of Ist Class Stipendiary Magistrate).

(II) Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.

(III) Revenue Officer not below the rank of Tehsildar' and

(IV) Sub-Divisional Officer of the area where the candidate and/or his family resides

ANNEXURE FOR FORM-OBC-NCL

Sl. No.	Resolution No.	Date of Notification
1	No.12011/68/93-BCC(C)	13.09.1993
2	No.12011/9/94-BCC	19.10.1994
3	No.12011/7/95-BCC	24.05.1995
4	No.12011/96/94-BCC	09.03.1996
5	No.12011/44/96-BCC	11.12.1996
6	No.12011/13/97-BCC	03.12.1997
7	No.12011/99/94-BCC	11.12.1997
8	No.12011/68/98-BCC	27.10.1999
9	No.12011/88/98-BCC	06.12.1999
10	No.12011/36/99-BCC	04.04.2000
11	No.12011/44/99-BCC	21.09.2000
12	No.12015/9/2000-BCC	06.09.2001
13	No.12011/1/2001-BCC	19.06.2003
14	No.12011/4/2002-BCC	13.01.2004
15	No.12011/9/2004-BCC	16.01.2006
16	No.12011/14/2004-BCC	12.03.2007
17	No.12011/16/2007-BCC	12.10.2007
18	No.12019/6/2005-BCC	30.07.2010
19	No. 12015/2/2007-BCC	18.08.2010
20	No.12015/15/2008-BCC	16.06.2011
21	No.12015/13/2010-BC-II	08.12.2011
22	No.12015/5/2011-BC-II	17.02.2014

DECLARATION BY THE CANDIDATE IN LIEU OF OBC-NCL CERTIFICATE

Name of the candidate: _____

Passport size Photograph of the Candidate

Address: _____

_____

_____

Application Number of JEE (Main) - 2022: _____

Mobile No:_____ Email: _____

I understand that as per the new guideline from the Ministry of Personnel, Public Grievances and Pensions, GoI, I am required to submit the OBC-NCL certificate issued on or after **1 January 2022**.

Since I have not been able to collect the said certificate on time, I may kindly be allowed to write JEE (Main) - 2022 provisionally. I hereby declare that I will upload a fresh certificate (issued on or after **1 January 2022**) at the time of reporting after seat allocation.

I understand that inability to upload the same by the given date and time will lead to the withdrawal of the OBC-NCL benefit. I also understand that, if qualified, my category will be adjusted accordingly in the Common Rank List.

Signature of Father/Mother

Name: Date:

Signature of Applicant   Date:

SC/ST Certificate Format
FORM OF CERTIFICATE TO BE PRODUCED BY SCHEDULED CASTES (SC) AND SCHEDULED TRIBES (ST) CANDIDATES

1. This is to certify that Shri/ Shrimati/ Kumari*_____ son/daughter* of _____ of Village/Town* _____ District/Division* _____ of State/Union Territory* _____ belongs to the _____Scheduled Caste / Scheduled Tribe* under :-

* The Constitution (Scheduled Castes) Order, 1950
* The Constitution (Scheduled Tribes) Order, 1950
* **The Constitution (Scheduled Castes) (Union Territories) Order, 1951**
    * The Constitution (Scheduled Tribes) (Union Territories) Order, 1951

[As amended by the Scheduled Castes and Scheduled Tribes Lists (Modification Order) 1956, the Bombay Reorganisation Act, 1960, the Punjab Reorganisation Act, 1966, the State of Himachal Pradesh Act, 1970, the North-Eastern Areas (Reorganisation) Act, 1971, the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 1976 and the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 2002]

* The Constitution (Jammu and Kashmir) Scheduled Castes Order, 1956;
* The Constitution (Andaman and Nicobar Islands) Scheduled Tribes Order, 1959, as amended by the Scheduled Castes and Scheduled Tribes Order (Amendment) Act, 1976;
* The Constitution (Dadra and Nagar Haveli) Scheduled Castes Order, 1962;
* The Constitution (Dadra and Nagar Haveli) Scheduled Tribes Order, 1962;
* The Constitution (Pondicherry) Scheduled Castes Order, 1964;
* The Constitution (Uttar Pradesh) Scheduled Tribes Order, 1967;
* The Constitution (Goa, Daman, and Diu) Scheduled Castes Order, 1968;
* The Constitution (Goa, Daman, and Diu) Scheduled Tribes Order, 1968;
* The Constitution (Nagaland) Scheduled Tribes Order, 1970;
* The Constitution (Sikkim) Scheduled Castes Order, 1978;
* The Constitution (Sikkim) Scheduled Tribes Order, 1978;
* The Constitution (Jammu and Kashmir) Scheduled Tribes Order, 1989;
* The Constitution (Scheduled Castes) Order (Amendment) Act, 1990;
* The Constitution (Scheduled Tribes) Order (Amendment) Act, 1991;
* The Constitution (Scheduled Tribes) Order (Second Amendment) Act, 1991.

2. #This certificate is issued on the basis of the Scheduled Castes / Scheduled Tribes* Certificate issued to Shri /Shrimati* _____ father/mother* of Shri /Shrimati /Kumari* _____ of Village/Town* _____ in District/Division* _____ of the State State/Union Territory*_ _____ who belong to the Caste / Tribe* which is recognised as a Scheduled Caste / Scheduled Tribe* in the State / Union Territory* _____issued by the _____ dated _____ _.

    3. Shri/ Shrimati/ Kumari *_____and / or* his / her* family ordinarily reside(s)** in Village/Town* _____of_____District/Division* of the State Union Territory* of_____.

Signature:_____
Designation _____

Place: _____ State/Union Territory* _____ (With seal of the Office)

Date: _____

* Please delete the word(s) which are not applicable.

Applicable in the case of SC/ST Persons who have migrated from another State/UT.

IMPORTANT NOTES
The term "ordinarily reside(s)**" used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950. Officers competent to issue Caste/Tribe certificates:

1. District Magistrate / Additional District Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / Ist Class Stipendiary Magistrate / City Magistrate / Sub-Divisional Magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner.
2. Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
3. Revenue Officers not below the rank of Tehsildar.
4. Sub-divisional Officer of the area where the candidate and/ or his family normally reside(s).
5. Administrator / Secretary to Administrator / Development Officer (Lakshadweep Island).
6. Certificate issued by any other Authority will be rejected.

Disability Certificate
(In cases of amputation or complete permanent paralysis of limbs and in cases of blindness)
(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)

(See rule 4)

> Recent PP size attested photograph (showing face only) of the person with disability

Certificate No._____   Date:_____

This is to certify that I have carefully examined Shri/Smt./Kum._____ son/wife/daughter of Shri____ _____Date of Birth (DD/MM/YY)__Age___years, male/female___ Registration No. _____permanent resident of House No._ Ward/Village/ Street_____Post Office_____District_____State__, whose photograph is affixed above, and am satisfied that:

1.   he/she is a case of:

    a.   locomotor disability

    b.   blindness

(Please tick as applicable)

2.   the diagnosis in his/her case is _____

3.   He/ She has___% (in figure)__percent (in words) permanent physical impairment/blindness in relation to his/her _____ (part of body) as per guidelines (to be specified).

4.   The applicant has submitted the following document as proof of residence:-

Nature of Document	Date of Issue	Details of authority issuing certificate

(Signature and Seal of Authorised Signatory of notified Medical Authority)

Signature/Thumb impression of the person in whose favour disability certificate is issued.

Disability Certificate
(In cases of multiple disabilities)
(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)

Recent PP size attested photograph (showing face only) of the person with disability

(See rule 4)

Certificate No._____Date: _____

This is to certify that I have carefully examined

Shri/Smt./Kum._____ son/ wife/daughter of

Shri_____Date of Birth

(DD/MM/YY)_____Age_____years,

male/female_____Registration No. _____permanent resident of

House No._____Ward/Village/Street_____ Post Office _____

District_____

State_____, whose photograph is affixed above, and are satisfied that:

1. He/she is a Case of **Multiple Disability.** His/her extent of permanent physical impairment/ disability has been evaluated as per guidelines (to be specified) for the disabilities ticked below, and shown against the relevant disability in the table below:

S. No.	Disability	Affected Part of Body	Diagnosis	Permanent physical impairment/mental disability (in %)
1	Locomotor disability	@		
2	Low vision	#		
3	Blindness	Both Eyes		
4	Hearing impairment	£		
5	Mental retardation	X		
6	Mental-illness	X		

@ - e.g. Left/Right/both arms/legs
 # - e.g. Single eye/both eyes
£ - e.g. Left/Right/both ears

2. In the light of the above, his/her overall permanent physical impairment as per guidelines (to be specified), is as follows:

    In figures:_____percent

    In words:_____percent

3. The above condition is progressive/ non-progressive/ likely to improve/ not likely to improve.

4. Reassessment of disability is:
    (i) not necessary Or
    (ii) is recommended/after_____years_____months, and therefore this certificate shall be valid till (DD/MM/YY) _____

5. The applicant has submitted the following document as proof of residence:

Nature of Document	Date of Issue	Details of authority issuing certificate

6. Signature and seal of the Medical Authority:

Name and Seal of Member	Name of Seal of Member	Name and Seal of the Chairperson

Signature/Thumb impression of the person in whose favour disability certificate is issued.

Disability Certificate
(In cases other than those mentioned in Forms II and III)
(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)

(See rule 4)

> Recent PP size attested photograph (showing face only) of the person with disability

Certificate No._____   Date: _____

This is to certify that I have carefully examined

Shri/Smt./Kum._____son/ wife/daughter of Shri_____

_____Date of Birth (DD/MM/YY)_Age___years,

male/female___Registration No. ____ permanent resident of House No.___Ward/Village/Street_____

Post Office _____ District_____State_____, whose photograph is affixed above, and am satisfied

that he/she is a case of disability.

1. His/her extent of percentage of physical impairment/disability has been evaluated as per guidelines (to be specified) and is shown against the relevant disability in the table below:

S. No.	Disability	Diagnosis	Permanent physical impairment / mental disability (in %)
1	Locomotors disability		
2	Visual Impairment (blindness / low vision)		
3	Hearing impairment		
4	Speech and language disability		
5	Intellectual disability		
6	Mental-illness		
7	Disability caused due to chronic neurological conditions and/or blood disorders		

(Please strike out the disabilities which are not applicable.)

2. The above condition is progressive/ non-progressive/ likely to improve/ not likely to improve.

3. Reassessment of disability is:
    a. not necessary Or
    b. is recommended/after_____years_____months, and therefore this certificate shall be valid till (DD/MM/YY) _____

4. The applicant has submitted the following document as proof of residence:

Nature of Document	Date of Issue	Details of authority issuing certificate

(Authorized Signatory of notified Medical Authority) (Name and Seal)

Countersigned

{Countersignature and seal of the CMO/Medical Superintendent/Head of Government Hospital, in case the certificate is issued by a medical authority who is not a government servant (with seal)}

Signature/Thumb impression of the person in whose favour disability certificate is issued.

Note: In case this certificate is issued by a medical authority who is not a government servant, it shall be valid only if countersigned by the Chief Medical Officer of the District. Note: The principal rules were published in the Gazette of India vide notification number S.O. 908(E), dated the 31st December 1996.

Form-DYSLEXIC-1

FORMAT OF MEDICAL CERTIFICATE / REPORT TO BE PRODUCED BY DYSLEXIC CANDIDATE

{To be obtained from any Government or Government approved Learning Disability Clinic/Neurodevelopmental Centre/Dyslexia Association}

Date:

PSYCHO-EDUCATION EVALUATION REPORT

Name of the candidate:

Date of Birth: Candidate

Registration in the Dyslexia Assn. (date / number):

Name of the Father/Mother/Guardian:

Name/address and Regn. No. :
of the Dyslexia Association

Physical & Neurologic Assessment: [   ]

Psychological Assessment: [   ]
WISC   Verbal IQ:
                Performance IQ:
                Full-Scale IQ:

Interpretation: [   ]

Educational Assessment: [   ]

Certified that:

1. The condition of handicap is: MILD / MODERATE / SEVERE (tick whichever is applicable)*.

2. The disability is **PERMANENT** in nature and **DETAILED REPORTS OF DYSLEXIA ASSESSMENT ARE ATTACHED WITH THIS FORM (IN ORIGINAL).**

*Learning Disability is a permanent developmental disorder. Currently, there are no standard approved methods to quantify the disorder. However, the method of diagnosis is based on significant impairment in academic achievement. To avail the benefit of relaxed norm under the PwD category, the candidate must come under the SEVERE category.

Signature and Name (in CAPITAL LETTERS) of the certifying official:

Seal:

Passport size Photograph of the Candidate

<div align="right">**Annexure-VIII**</div>

<div align="right">**FORM-DYSLEXIC-2**</div>

*CERTIFICATE TO BE PRODUCED BY DYSLEXIC CANDIDATE FROM THE PRINCIPAL OF THE SCHOOL/COLLEGE LAST ATTENDED

Testimonial

Date:

Name of the candidate:

Date of Birth:

Name and Address of the School/College:

Passport size Photograph of the Candidate

Certified that Shri/Smt/Kum _____ son/daughter of_____of

_____village/town passed his/her Class 12 from this school and as

per records, availed concession under dyslexic category.

Signature with a seal:

_____

* *A candidate passing Class 12 or equivalent through the open school system or in private mode may submit the certificate to this effect from the competent authority in the board certifying the concessions availed under dyslexia.*

List of Examination Cities for JEE (Main) - 2022

JEE (Main) - 2022 will be conducted in the following Cities, provided there are sufficient numbers of candidates in the City:

State-wise/UT-wise list of Cities in India:

S. No.	State	District	City	City Code
1	ANDAMAN & NICOBAR ISLANDS (UT)	SOUTH ANDAMAN	PORT BLAIR	AN01
2	ANDHRA PRADESH	GUNTUR	AMARAVATHI	AP24
3	ANDHRA PRADESH	ANANTAPUR	ANANTAPUR	AP01
4	ANDHRA PRADESH	WEST GODAVARI	BHIMAVARAM	AP03
5	ANDHRA PRADESH	PRAKASAM	CHIRALA	AP04
6	ANDHRA PRADESH	CHITTOOR	CHITTOOR	AP05
7	ANDHRA PRADESH	WEST GODAVARI	ELURU	AP06
8	ANDHRA PRADESH	ANANTAPUR	GOOTY	AP25
9	ANDHRA PRADESH	NELLORE	GUDUR	AP26
10	ANDHRA PRADESH	GUNTUR	GUNTUR	AP07
11	ANDHRA PRADESH	YSR KADAPA	KADAPA	AP08
12	ANDHRA PRADESH	EAST GODAVARI	KAKINADA	AP09
13	ANDHRA PRADESH	KURNOOL	KURNOOL	AP10
14	ANDHRA PRADESH	MACHILIPATNAM	MACHILIPATNAM	AP27
15	ANDHRA PRADESH	MANGALAGIRI	MANGALAGIRI	AP28
16	ANDHRA PRADESH	KURNOOL	NANDYAL	AP29
17	ANDHRA PRADESH	GUNTUR	NARASARAOPET	AP20
18	ANDHRA PRADESH	NELLORE	NELLORE	AP11
19	ANDHRA PRADESH	PRAKASAM	ONGOLE	AP12
20	ANDHRA PRADESH	YSR KADAPA	PRODDATUR	AP21
21	ANDHRA PRADESH	EAST GODAVARI	RAJAHMUNDRY	AP13
22	ANDHRA PRADESH	SRIKAKULAM	SRIKAKULAM	AP14
23	ANDHRA PRADESH	EAST GODAVARI	SURAMPALEM	AP23
24	ANDHRA PRADESH	WEST GODAVARI	TADEPALLIGUDEM	AP30
25	ANDHRA PRADESH	WEST GODAVARI	TANUKU	AP31
26	ANDHRA PRADESH	TENALI	TENALI	AP32
27	ANDHRA PRADESH	CHITTOOR	TIRUPATHI	AP16
28	ANDHRA PRADESH	KRISHNA	VIJAYAWADA	AP17
29	ANDHRA PRADESH	VISHAKAPATNAM	VISAKHAPATNAM	AP18
30	ANDHRA PRADESH	VIZIANAGARAM	VIZIANAGARAM	AP19
31	ARUNACHAL PRADESH	WEST SIANG	BASAR	AL02
32	ARUNACHAL PRADESH	PAPUM PARE	ITANAGAR/NAHARLAGUN	AL01
33	ASSAM	BARPETA	BARPETA	AM06
34	ASSAM	DARRANG (MANGALDOI)	DARRANG (MANGALDOI)	AM07
35	ASSAM	DIBRUGARH	DIBRUGARH	AM01

36	ASSAM	GOLAGHAT	GOLAGHAT	AM08
37	ASSAM	KAMRUP METROPOLITAN	GUWAHATI	AM02
38	ASSAM	JORHAT	JORHAT	AM03
39	ASSAM	LAKHIMPUR	LAKHIMPUR	AM09
40	ASSAM	NAGAON	NAGAON	AM10
41	ASSAM	NALBARI	NALBARI	AM11
42	ASSAM	CACHAR	SILCHAR (ASSAM)	AM04
43	ASSAM	SIVASAGAR	SIVASAGAR	AM12
44	ASSAM	SONITPUR	TEZPUR	AM05
45	BIHAR	ARARIA	ARARIA	BR21
46	BIHAR	BHOJPUR	ARRAH	BR09
47	BIHAR	ARWAL	ARWAL	BR22
48	BIHAR	AURANGABAD	AURANGABAD (BIHAR)	BR01
49	BIHAR	BANKA	BANKA	BR23
50	BIHAR	BEGUSARAI	BEGUSARAI	BR13
51	BIHAR	WEST CHAMPARAN	BETTIAH	BR20
52	BIHAR	KAIMUR	BHABUA	BR24
53	BIHAR	BHAGALPUR	BHAGALPUR	BR02
54	BIHAR	BUXAR	BUXAR	BR25
55	BIHAR	DARBHANGA	DARBHANGA	BR04
56	BIHAR	GAYA	GAYA	BR05
57	BIHAR	GOPALGANJ	GOPALGANJ	BR10
58	BIHAR	VAISHALI	HAJIPUR	BR26
59	BIHAR	JAMUI	JAMUI	BR27
60	BIHAR	JEHANABAD	JEHANABAD	BR28
61	BIHAR	KATIHAR	KATIHAR	BR29
62	BIHAR	KHAGARIA	KHAGARIA	BR30
63	BIHAR	LAKHISARAI	LAKHISARAI	BR31
64	BIHAR	MADHEPURA	MADHEPURA	BR32
65	BIHAR	MADHUBANI	MADHUBANI	BR15
66	BIHAR	EAST CHAMPARAN	MOTIHARI	BR14
67	BIHAR	MUNGER	MUNGER	BR33
68	BIHAR	MUZAFFARPUR	MUZAFFARPUR	BR06
69	BIHAR	NALANDA	NALANDA	BR11
70	BIHAR	NAWADA	NAWADA	BR16
71	BIHAR	PATNA	PATNA	BR07
72	BIHAR	PURNEA	PURNEA	BR08
73	BIHAR	SAMASTIPUR	SAMASTIPUR	BR12
74	BIHAR	ROHTAS	SASARAM	BR17
75	BIHAR	SHEIKHPURA	SHEIKHPURA	BR35
76	BIHAR	SITAMARHI	SITAMARHI	BR18
77	BIHAR	SIWAN	SIWAN	BR19
78	BIHAR	SUPAUL	SUPAUL	BR36
79	BIHAR	VAISHALI	VAISHALI	BR37
80	CHANDIGARH(UT)	CHANDIGARH	CHANDIGARH/MOHALI/PANCHKULA	CH01

81	CHHATTISGARH	SARGUJA	AMBIKAPUR	CG04
82	CHHATTISGARH	BALOD	BALOD	CG05
83	CHHATTISGARH	DURG	BHILAI NAGAR/DURG	CG01
84	CHHATTISGARH	BILASPUR (CG)	BILASPUR (CG)	CG02
85	CHHATTISGARH	DANTEWADA	DANTEWADA	CG06
86	CHHATTISGARH	DHAMTARI	DHAMTARI	CG07
87	CHHATTISGARH	BASTAR	JAGDALPUR	CG08
88	CHHATTISGARH	JANJGIR-CHAMPA	JANJGIR	CG09
89	CHHATTISGARH	KORBA	KORBA	CG10
90	CHHATTISGARH	RAIGARH	RAIGARH	CG11
91	CHHATTISGARH	RAIPUR	RAIPUR	CG03
92	CHHATTISGARH	RAJNANDGAON	RAJNANDGAON	CG12
93	DADRA & NAGAR HAVELI(UT)	DADRA & NAGAR HAVELI	SILVASSA	DN01
94	DAMAN & DIU(UT)	DAMAN	DAMAN	DD01
95	DAMAN & DIU(UT)	DIU	DIU	DD02
96	DELHI	DELHI	DELHI/NEW DELHI	DL01
97	GOA	SOUTH GOA	PANAJI/MADGAON/MARGAO	GO01
98	GOA	NORTH GOA	PONDA	GO02
99	GUJARAT	AHMEDABAD	AHMEDABAD/GANDHINAGAR	GJ01
100	GUJARAT	AMRELI	AMRELI	GJ18
101	GUJARAT	VALLABHVIDYANAGAR	ANAND	GJ02
102	GUJARAT	BANASKANTHA	BANASKANTHA	GJ19
103	GUJARAT	BHARUCH	BHARUCH	GJ16
104	GUJARAT	BHAVNAGAR	BHAVNAGAR	GJ03
105	GUJARAT	KUTCH	BHUJ	GJ17
106	GUJARAT	BOTAD	BOTAD	GJ20
107	GUJARAT	DAHOD	DAHOD	GJ21
108	GUJARAT	GANDHIDHAM	GANDHIDHAM	GJ22
109	GUJARAT	GANDHINAGAR	GANDHINAGAR	GJ23
110	GUJARAT	PANCHMAHAL	GODHRA	GJ24
111	GUJARAT	SABARKANTHA	HIMATNAGAR	GJ14
112	GUJARAT	JAMNAGAR	JAMNAGAR	GJ06
113	GUJARAT	JUNAGADH	JUNAGADH	GJ07
114	GUJARAT	KADI	KADI	GJ25
115	GUJARAT	KHEDA	KHEDA	GJ26
116	GUJARAT	MEHSANA	MEHSANA	GJ08
117	GUJARAT	ARAVALLI	MODASA	GJ27
118	GUJARAT	NAVSARI	NAVSARI	GJ15
119	GUJARAT	PATAN	PATAN	GJ28
120	GUJARAT	PORBANDAR	PORBANDAR	GJ29
121	GUJARAT	RAJKOT	RAJKOT	GJ10
122	GUJARAT	SURAT	SURAT	GJ11
123	GUJARAT	SURENDRANAGAR	SURENDRANAGAR	GJ30
124	GUJARAT	VADODARA	VADODARA	GJ12
125	GUJARAT	VALSAD/VAPI	VALSAD/VAPI	GJ13

126	GUJARAT	GIR SOMNATH	VERAVAL	GJ31
127	GUJARAT	TAPI	VYARA	GJ32
128	HARYANA	AMBALA	AMBALA	HR01
129	HARYANA	BHIWANI	BHIWANI	HR13
130	HARYANA	FARIDABAD	FARIDABAD	HR03
131	HARYANA	GURUGRAM	GURUGRAM	HR04
132	HARYANA	HISSAR	HISSAR	HR05
133	HARYANA	JHAJJAR	JHAJJAR	HR15
134	HARYANA	JIND	JIND	HR16
135	HARYANA	KAITHAL	KAITHAL	HR17
136	HARYANA	KARNAL	KARNAL	HR06
137	HARYANA	KURUKSHETRA	KURUKSHETRA	HR07
138	HARYANA	MAHENDRAGARH	MAHENDRAGARH	HR14
139	HARYANA	PALWAL	PALWAL	HR18
140	HARYANA	PANIPAT	PANIPAT	HR08
141	HARYANA	REWARI	REWARI	HR11
142	HARYANA	ROHTAK	ROHTAK	HR12
143	HARYANA	SIRSA	SIRSA	HR20
144	HARYANA	SONIPAT	SONIPAT	HR09
145	HARYANA	YAMUNA NAGAR	YAMUNA NAGAR	HR10
146	HIMACHAL PRADESH	BILASPUR	BILASPUR (HP)	HP01
147	HIMACHAL PRADESH	CHAMBA	CHAMBA	HP12
148	HIMACHAL PRADESH	HAMIRPUR	HAMIRPUR (HP)	HP03
149	HIMACHAL PRADESH	KANGRA	KANGRA/PALAMPUR	HP04
150	HIMACHAL PRADESH	KULLU	KULLU	HP10
151	HIMACHAL PRADESH	MANDI	MANDI	HP08
152	HIMACHAL PRADESH	SHIMLA	SHIMLA	HP06
153	HIMACHAL PRADESH	SIRMAUR	SIRMAUR	HP11
154	HIMACHAL PRADESH	SOLAN	SOLAN	HP07
155	HIMACHAL PRADESH	UNA	UNA	HP09
156	JAMMU & KASHMIR	ANANTNAG	ANANTNAG	JK05
157	JAMMU & KASHMIR	BADGAM	BADGAM	JK07
158	JAMMU & KASHMIR	BARAMULLA	BARAMULLA	JK01
159	JAMMU & KASHMIR	JAMMU	JAMMU	JK02
160	JAMMU & KASHMIR	KATHUA	KATHUA	JK08
161	JAMMU & KASHMIR	KUPWARA	KUPWARA	JK09
162	JAMMU & KASHMIR	PULWAMA	PULWAMA	JK06
163	JAMMU & KASHMIR	SAMBA	SAMBA	JK03
164	JAMMU & KASHMIR	SRINAGAR	SRINAGAR (J & K)	JK04
165	JAMMU & KASHMIR	UDHAMPUR	UDHAMPUR	JK10
166	JHARKHAND	BOKARO STEEL CITY	BOKARO	JH01
167	JHARKHAND	WEST SINGHBHUM	CHAIBASA	JH08
168	JHARKHAND	CHATRA	CHATRA	JH09
169	JHARKHAND	DEOGHAR	DEOGHAR (JHARKHAND)	JH10
170	JHARKHAND	DHANBAD	DHANBAD	JH02

171	JHARKHAND	DUMKA	DUMKA	JH11
172	JHARKHAND	GARHWA	GARHWA	JH12
173	JHARKHAND	GIRIDIH	GIRIDIH	JH07
174	JHARKHAND	GODDA	GODDA	JH13
175	JHARKHAND	HAZARIBAGH	HAZARIBAGH	JH05
176	JHARKHAND	EAST SINGHBHUM	JAMSHEDPUR	JH03
177	JHARKHAND	KODERMA	KODERMA	JH14
178	JHARKHAND	PALAMU	PALAMU	JH15
179	JHARKHAND	RAMGARH	RAMGARH	JH06
180	JHARKHAND	RANCHI	RANCHI	JH04
181	KARNATAKA	BAGALKOT	BAGALKOT	KK19
182	KARNATAKA	BALLARI	BALLARI	KK03
183	KARNATAKA	BELAGAVI	BELAGAVI (BELGAUM)	KK02
184	KARNATAKA	BENGALURU- RURAL	BENGALURU	KK04
185	KARNATAKA	BENGALURU- URBAN	BENGALURU- URBAN	KK20
186	KARNATAKA	BIDAR	BIDAR	KK05
187	KARNATAKA	CHAMARAJNAGAR	CHAMARAJNAGAR	KK21
188	KARNATAKA	CHIKABALLAPUR	CHIKABALLAPUR	KK22
189	KARNATAKA	CHIKMAGALUR	CHIKMAGALUR	KK23
190	KARNATAKA	CHITRADURGA	CHITRADURGA	KK24
191	KARNATAKA	DAVANGERE	DAVANGERE	KK06
192	KARNATAKA	DHARWAD/HUBLI	DHARWAD	KK10
193	KARNATAKA	GADAG	GADAG	KK25
194	KARNATAKA	KALABURAGI	GULBARGA/KALABURGI	KK08
195	KARNATAKA	HASSAN	HASSAN	KK09
196	KARNATAKA	HAVERI DISTRICT	HAVERI	KK26
197	KARNATAKA	HUBLI	HUBLI	KK27
198	KARNATAKA	UTTARA KANNADA	KARWAR	KK28
199	KARNATAKA	KODAGU	KODAGU	KK29
200	KARNATAKA	KOLAR	KOLAR	KK30
201	KARNATAKA	KOPPAL	KOPPAL	KK31
202	KARNATAKA	MANDYA	MANDYA	KK18
203	KARNATAKA	DAKSHINA KANNADA	MANGALURU (MANGALORE)	KK12
204	KARNATAKA	MYSORE	MYSURU (MYSORE)	KK14
205	KARNATAKA	RAICHUR	RAICHUR	KK32
206	KARNATAKA	RAMANAGARA	RAMANAGARA	KK33
207	KARNATAKA	SHIMOGA	SHIVAMOGA (SHIMOGA)	KK15
208	KARNATAKA	TUMKUR	TUMAKURU	KK16
209	KARNATAKA	UDUPI	UDUPI/MANIPAL	KK17
210	KARNATAKA	VIJAYAPURA	VIJAYAPURA	KK34
211	KARNATAKA	YADGIR	YADGIR	KK35
212	KERALA	ALAPPUZHA	ALAPPUZHA/CHENGANNUR	KL01
213	KERALA	ANGAMALY	ANGAMALY	KL20
214	KERALA	ERNAKULAM	ERNAKULAM/MOOVATTUPUZHA	KL04
215	KERALA	IDUKKI	IDUKKI	KL05

216	KERALA	KANNUR	KANNUR	KL07
217	KERALA	KASARAGOD	KASARAGOD	KL08
218	KERALA	KOLLAM	KOLLAM	KL09
219	KERALA	KOTTAYAM	KOTTAYAM	KL11
220	KERALA	KOZHIKODE	KOZHIKODE/CALICUT	KL12
221	KERALA	MALAPPURAM	MALAPPURAM	KL13
222	KERALA	PALAKKAD	PALAKKAD	KL15
223	KERALA	PATHANAMTHITTA	PATHANAMTHITTA	KL16
224	KERALA	KANNUR	PIYYANNUR	KL21
225	KERALA	THIRUVANANTHAPURAM	THIRUVANANTHAPURAM	KL17
226	KERALA	THRISSUR	THRISSUR	KL18
227	KERALA	WAYANAD	WAYANAD	KL19
228	LAKSHADWEEP	KAVARATTI	KAVARATTI	LD01
229	LEH & LADAKH	KARGIL	KARGIL	LL02
230	LEH & LADAKH	LEH	LEH	LL01
231	MADHYA PRADESH	ASHOK NAGAR	ASHOK NAGAR	MP21
232	MADHYA PRADESH	BALAGHAT	BALAGHAT	MP01
233	MADHYA PRADESH	BARWANI	BARWANI	MP22
234	MADHYA PRADESH	BETUL	BETUL	MP02
235	MADHYA PRADESH	BHIND	BHIND	MP23
236	MADHYA PRADESH	BHOPAL	BHOPAL	MP03
237	MADHYA PRADESH	CHHATARPUR	CHHATARPUR	MP24
238	MADHYA PRADESH	CHHINDWARA	CHHINDWARA	MP05
239	MADHYA PRADESH	DAMOH	DAMOH	MP25
240	MADHYA PRADESH	DATIA	DATIA	MP26
241	MADHYA PRADESH	DEOGHAR	DEOGHAR (MP)	MP27
242	MADHYA PRADESH	DEWAS	DEWAS	MP19
243	MADHYA PRADESH	DHAR	DHAR	MP16
244	MADHYA PRADESH	GUNA	GUNA	MP28
245	MADHYA PRADESH	GWALIOR	GWALIOR	MP06
246	MADHYA PRADESH	HOSHANGABAD	HOSHANGABAD	MP17
247	MADHYA PRADESH	INDORE	INDORE	MP07
248	MADHYA PRADESH	JABALPUR	JABALPUR	MP08
249	MADHYA PRADESH	KHANDWA	KHANDWA	MP29
250	MADHYA PRADESH	KHARGONE (WEST NIMAR)	KHARGONE (WEST NIMAR)	MP18
251	MADHYA PRADESH	MANDSAUR	MANDSAUR	MP30
252	MADHYA PRADESH	MORENA	MORENA	MP31
253	MADHYA PRADESH	NEEMUCH	NEEMUCH	MP32
254	MADHYA PRADESH	RATLAM	RATLAM	MP33
255	MADHYA PRADESH	REWA	REWA	MP11
256	MADHYA PRADESH	SAGAR	SAGAR	MP12
257	MADHYA PRADESH	SATNA	SATNA	MP13
258	MADHYA PRADESH	UJJAIN	UJJAIN	MP15
259	MADHYA PRADESH	VIDISHA	VIDISHA	MP20
260	MAHARASHTRA	AHMEDNAGAR	AHMEDNAGAR	MR01

261	MAHARASHTRA	AKOLA	AKOLA	MR02
262	MAHARASHTRA	AMRAVATI	AMRAVATI	MR03
263	MAHARASHTRA	AURANGABAD	AURANGABAD (MH)	MR04
264	MAHARASHTRA	BEED	BEED	MR30
265	MAHARASHTRA	BHANDARA	BHANDARA	MR31
266	MAHARASHTRA	BULDHANA	BULDHANA	MR32
267	MAHARASHTRA	CHANDRAPUR	CHANDRAPUR	MR09
268	MAHARASHTRA	DHULE	DHULE	MR10
269	MAHARASHTRA	GONDIA	GONDIA	MR35
270	MAHARASHTRA	JALGAON	JALGAON	MR13
271	MAHARASHTRA	KOLHAPUR	KOLHAPUR	MR14
272	MAHARASHTRA	LATUR	LATUR	MR15
273	MAHARASHTRA	MUMBAI CITY	MUMBAI/NAVI MUMBAI	MR16
274	MAHARASHTRA	NAGPUR	NAGPUR	MR17
275	MAHARASHTRA	NANDED	NANDED	MR18
276	MAHARASHTRA	NANDURBAR	NANDURBAR	MR36
277	MAHARASHTRA	NASHIK	NASHIK	MR19
278	MAHARASHTRA	OSMANABAD	OSMANABAD	MR37
279	MAHARASHTRA	PALGHAR	PALGHAR	MR33
280	MAHARASHTRA	PARBHANI	PARBHANI	MR38
281	MAHARASHTRA	PUNE	PUNE	MR22
282	MAHARASHTRA	RAIGAD	RAIGAD	MR23
283	MAHARASHTRA	RATNAGIRI	RATNAGIRI	MR24
284	MAHARASHTRA	SANGLI	SANGLI	MR25
285	MAHARASHTRA	SATARA	SATARA	MR26
286	MAHARASHTRA	SINDHUDURG	SINDHUDURG	MR39
287	MAHARASHTRA	SOLAPUR	SOLAPUR	MR27
288	MAHARASHTRA	THANE	THANE	MR28
289	MAHARASHTRA	WARDHA	WARDHA	MR29
290	MAHARASHTRA	YAVATMAL	YAVATMAL	MR34
291	MANIPUR	IMPHAL	IMPHAL	MN01
292	MEGHALAYA	EAST KHASI HILLS	EAST KHASI HILLS	MG02
293	MEGHALAYA	SHILLONG	SHILLONG	MG01
294	MIZORAM	AIZAWL	AIZAWL	MZ01
295	NAGALAND	DIMAPUR	DIMAPUR	NL01
296	NAGALAND	KOHIMA	KOHIMA	NL02
297	ODISHA	ANGUL	ANGUL	OR10
298	ODISHA	BALANGIR	BALANGIR	OR20
299	ODISHA	BALASORE	BALASORE (BALESWAR)	OR02
300	ODISHA	BARAGARH	BARAGARH	OR21
301	ODISHA	MAYURBANJ	BARIPADA/MAYURBANJ	OR12
302	ODISHA	GANJAM	BERHAMPUR / GANJAM	OR03
303	ODISHA	BHADRAK	BHADRAK	OR11
304	ODISHA	KALAHANDI	BHAWANIPATNA / KALAHANDI	OR18
305	ODISHA	KHORDHA	BHUBANESWAR	OR04

306	ODISHA	CUTTACK	CUTTACK	OR05
307	ODISHA	DHENKANAL	DHENKANAL	OR06
308	ODISHA	JAGATSINGHPUR	JAGATSINGHPUR	OR17
309	ODISHA	JAJPUR	JAJPUR	OR13
310	ODISHA	KORAPUT	JEYPORE (ODISHA)	OR19
311	ODISHA	JHARSUGUDA	JHARSUGUDA	OR22
312	ODISHA	KENDRAPARA	KENDRAPARA	OR14
313	ODISHA	KENDUJHAR (KEONJHAR)	KENDUJHAR (KEONJHAR)	OR15
314	ODISHA	MALKANGIRI	MALKANGIRI	OR23
315	ODISHA	PARALAKHEMUNDI (GAJAPATI)	PARALAKHEMUNDI (GAJAPATI)	OR24
316	ODISHA	PHULBANI (KANDHAMAL)	PHULBANI (KANDHAMAL)	OR25
317	ODISHA	PURI	PURI	OR16
318	ODISHA	RAYAGADA	RAYAGADA	OR26
319	ODISHA	SUNDERGARH	ROURKELA	OR08
320	ODISHA	SAMBALPUR	SAMBALPUR	OR09
321	PUDUCHERRY	PUDUCHERRY	KARAIKAL	PO02
322	PUDUCHERRY	PUDUCHERRY	PUDUCHERRY	PO01
323	PUNJAB	AMRITSAR	AMRITSAR	PB01
324	PUNJAB	BHATINDA	BHATINDA	PB02
325	PUNJAB	FARIDKOT	FARIDKOT	PB14
326	PUNJAB	FAZILKA	FAZILKA	PB15
327	PUNJAB	FIROZPUR	FIROZPUR	PB16
328	PUNJAB	GURDASPUR	GURDASPUR	PB17
329	PUNJAB	HOSHIARPUR	HOSHIARPUR	PB13
330	PUNJAB	JALANDHAR	JALANDHAR	PB04
331	PUNJAB	LUDHIANA	LUDHIANA	PB05
332	PUNJAB	PATHANKOT	PATHANKOT	PB07
333	PUNJAB	PATIALA	PATIALA/FATEHGARH SAHIB	PB08
334	PUNJAB	RUPNAGAR	RUPNAGAR	PB18
335	PUNJAB	SAHIBZADA AJIT SINGH NAGAR	SAHIBZADA AJIT SINGH NAGAR	PB12
336	PUNJAB	SANGRUR	SANGRUR	PB11
337	PUNJAB	SRI MUKTSAR SAHIB	SRI MUKTSAR SAHIB	PB19
338	RAJASTHAN	AJMER	AJMER	RJ01
339	RAJASTHAN	ALWAR	ALWAR	RJ02
340	RAJASTHAN	BARMER	BARMER	RJ19
341	RAJASTHAN	BHARATPUR	BHARATPUR	RJ16
342	RAJASTHAN	BHILWARA	BHILWARA	RJ12
343	RAJASTHAN	BIKANER	BIKANER	RJ05
344	RAJASTHAN	CHITTORGARH	CHITTORGARH	RJ20
345	RAJASTHAN	CHURU	CHURU	RJ21
346	RAJASTHAN	DAUSA	DAUSA	RJ17
347	RAJASTHAN	DHOLPUR	DHOLPUR	RJ22
348	RAJASTHAN	HANUMANGARH	HANUMANGARH	RJ23

349	RAJASTHAN	JAIPUR	JAIPUR	RJ06
350	RAJASTHAN	JAISALMER	JAISALMER	RJ24
351	RAJASTHAN	JHUNJHUNU	JHUNJHUNU	RJ13
352	RAJASTHAN	JODHPUR	JODHPUR	RJ07
353	RAJASTHAN	KARAULI	KARAULI	RJ18
354	RAJASTHAN	KOTA	KOTA	RJ08
355	RAJASTHAN	NAGAUR	NAGAUR	RJ14
356	RAJASTHAN	PALI	PALI	RJ25
357	RAJASTHAN	SAWAI MADHOPUR	SAWAI MADHOPUR	RJ15
358	RAJASTHAN	SIKAR	SIKAR	RJ09
359	RAJASTHAN	SIROHI	SIROHI	RJ26
360	RAJASTHAN	SRIGANGANAGAR	SRIGANGANAGAR	RJ10
361	RAJASTHAN	UDAIPUR	UDAIPUR	RJ11
362	SIKKIM	GANGTOK	GANGTOK	SM01
363	TAMIL NADU	ARIYALUR	ARIYALUR	TN24
364	TAMIL NADU	CHENGALPET	CHENGALPET	TN25
365	TAMIL NADU	CHENNAI	CHENNAI	TN01
366	TAMIL NADU	COIMBATORE	COIMBATORE	TN02
367	TAMIL NADU	CUDDALORE	CUDDALORE	TN03
368	TAMIL NADU	DHARMAPURI	DHARMAPURI	TN26
369	TAMIL NADU	DINDIGUL	DINDIGUL	TN27
370	TAMIL NADU	ERODE	ERODE	TN28
371	TAMIL NADU	KANCHIPURAM	KANCHIPURAM	TN05
372	TAMIL NADU	KANYAKUMARI	KANYAKUMARI/NAGERCOIL	TN06
373	TAMIL NADU	KARUR	KARUR	TN29
374	TAMIL NADU	KRISHNAGIRI	KRISHNAGIRI	TN21
375	TAMIL NADU	MADURAI	MADURAI	TN08
376	TAMIL NADU	NAGAPATTINAM	NAGAPATTINAM	TN30
377	TAMIL NADU	NAMAKKAL	NAMAKKAL	TN10
378	TAMIL NADU	PUDUKKOTTAI	PUDUKKOTTAI	TN31
379	TAMIL NADU	RAMANATHAPURAM	RAMANATHAPURAM	TN32
380	TAMIL NADU	SALEM	SALEM	TN11
381	TAMIL NADU	SIVAGANGA	SIVAGANGA	TN33
382	TAMIL NADU	THANJAVUR	THANJAVUR	TN12
383	TAMIL NADU	THIRUVALLUR	THIRUVALLUR	TN34
384	TAMIL NADU	THOOTHUKUDI	THOOTHUKUDI	TN13
385	TAMIL NADU	TIRUCHIRAPPALLI	TIRUCHIRAPPALLI	TN14
386	TAMIL NADU	TIRUNELVELI	TIRUNELVELI	TN15
387	TAMIL NADU	TIRUPUR	TIRUPPUR	TN22
388	TAMIL NADU	TIRUVARUR	TIRUVALLUR	TN16
389	TAMIL NADU	TIRUVANNAMALAI	TIRUVANNAMALAI	TN35
390	TAMIL NADU	NILGIRIS	UDHAGAMANDALAM	TN36
391	TAMIL NADU	VELLORE	VELLORE	TN18
392	TAMIL NADU	VILLUPURAM	VILUPPURAM	TN23
393	TAMIL NADU	VIRUDHANAGAR	VIRUDHUNAGAR	TN20

394	TELANGANA	ADILABAD	ADILABAD	TL12
395	TELANGANA	JOGULAMBA GADWAL	GADWAL	TL13
396	TELANGANA	HAYATHNAGAR	HAYATHNAGAR	TL14
397	TELANGANA	RANGA REDDY	HYDERABAD/SECUNDERABAD	TL01
398	TELANGANA	JAGTIAL	JAGTIAL	TL15
399	TELANGANA	JANGAON	JANGAON	TL16
400	TELANGANA	KARIMNAGAR	KARIMNAGAR	TL02
401	TELANGANA	KHAMMAM	KHAMMAM	TL03
402	TELANGANA	BHADRADRI KOTHAGUDEM	KOTHAGUDEM	TL17
403	TELANGANA	MAHABUBABAD	MAHABUBABAD	TL10
404	TELANGANA	MAHBUBNAGAR	MAHBUBNAGAR	TL04
405	TELANGANA	MANCHERIAL	MANCHERIAL	TL18
406	TELANGANA	MEDAK	MEDAK	TL19
407	TELANGANA	MEDCHAL	MEDCHAL	TL20
408	TELANGANA	NALGONDA	NALGONDA	TL05
409	TELANGANA	NIZAMABAD	NIZAMABAD	TL08
410	TELANGANA	SANGAREDDY	SANGAREDDY	TL21
411	TELANGANA	SIDDIPET	SIDDIPET	TL11
412	TELANGANA	SURYAPET	SURYAPET	TL09
413	TELANGANA	VIKARABAD	VIKARABAD	TL22
414	TELANGANA	WARANGAL (RURAL)	WARANGAL	TL07
415	TRIPURA	WEST TRIPURA	AGARTALA	TA01
416	UTTAR PRADESH	AGRA	AGRA	UP01
417	UTTAR PRADESH	ALIGARH	ALIGARH	UP02
418	UTTAR PRADESH	PRAYAGRAJ	ALLAHABAD/PRAYAGRAJ	UP03
419	UTTAR PRADESH	AMBEDKAR NAGAR	AMBEDKAR NAGAR	UP25
420	UTTAR PRADESH	AMETHI	AMETHI	UP44
421	UTTAR PRADESH	AZAMGARH	AZAMGARH	UP19
422	UTTAR PRADESH	SAMBHAL	BAHJOI	UP46
423	UTTAR PRADESH	BAHRAICH	BAHRAICH	UP47
424	UTTAR PRADESH	BALLIA	BALLIA	UP20
425	UTTAR PRADESH	BANDA	BANDA	UP26
426	UTTAR PRADESH	BARABANKI	BARABANKI	UP27
427	UTTAR PRADESH	BAREILLY	BAREILLY	UP04
428	UTTAR PRADESH	BASTI	BASTI	UP28
429	UTTAR PRADESH	BIJNOR	BIJNOR	UP21
430	UTTAR PRADESH	BUDAUN	BUDAUN	UP48
431	UTTAR PRADESH	BULANDSHAHR	BULANDSHAHR	UP29
432	UTTAR PRADESH	CHANDAULI	CHANDAULI	UP41
433	UTTAR PRADESH	DEORIA	DEORIA	UP30
434	UTTAR PRADESH	ETAWAH	ETAWAH	UP31
435	UTTAR PRADESH	AYODHYA	FAIZABAD	UP06
436	UTTAR PRADESH	FATEHPUR	FATEHPUR	UP49
437	UTTAR PRADESH	FIROZABAD	FIROZABAD	UP22

438	UTTAR PRADESH	GHAZIABAD	GHAZIABAD	UP07
439	UTTAR PRADESH	GHAZIPUR	GHAZIPUR	UP23
440	UTTAR PRADESH	GONDA	GONDA	UP50
441	UTTAR PRADESH	GORAKHPUR	GORAKHPUR	UP08
442	UTTAR PRADESH	HAPUR (PANCHSHEEL NAGAR)	HAPUR (PANCHSHEEL NAGAR)	UP51
443	UTTAR PRADESH	HARDOI	HARDOI	UP52
444	UTTAR PRADESH	HATHRAS	HATHRAS	UP53
445	UTTAR PRADESH	JALAUN	JALAUN (ORAI)	UP32
446	UTTAR PRADESH	JAUNPUR	JAUNPUR	UP24
447	UTTAR PRADESH	JHANSI	JHANSI	UP10
448	UTTAR PRADESH	KANPUR RURAL	KANPUR	UP11
449	UTTAR PRADESH	KAUSHAMBI	KAUSHAMBI	UP54
450	UTTAR PRADESH	KUSHINAGAR	KUSHINAGAR	UP33
451	UTTAR PRADESH	LAKHIMPUR KHERI	LAKHINPUR KHERI	UP34
452	UTTAR PRADESH	LALITPUR	LALITPUR	UP55
453	UTTAR PRADESH	LUCKNOW	LUCKNOW	UP12
454	UTTAR PRADESH	MAINPURI	MAINPURI	UP56
455	UTTAR PRADESH	MATHURA	MATHURA	UP13
456	UTTAR PRADESH	MAU	MAU	UP35
457	UTTAR PRADESH	MEERUT	MEERUT	UP14
458	UTTAR PRADESH	MIRZAPUR	MIRZAPUR	UP36
459	UTTAR PRADESH	MORADABAD	MORADABAD	UP15
460	UTTAR PRADESH	MUZAFFARNAGAR	MUZAFFARNAGAR	UP16
461	UTTAR PRADESH	SIDDHARTHNAGAR	NAUGARH	UP57
462	UTTAR PRADESH	GAUTAM BUDDHA NAGAR	NOIDA/GREATER NOIDA	UP09
463	UTTAR PRADESH	PRATAPGARH	PRATAPGARH	UP43
464	UTTAR PRADESH	RAI BAREILLY	RAI BAREILLY	UP37
465	UTTAR PRADESH	RAMPUR	RAMPUR	UP58
466	UTTAR PRADESH	SAHARANPUR	SAHARANPUR	UP38
467	UTTAR PRADESH	SHAHJAHANPUR	SHAHJAHANPUR	UP39
468	UTTAR PRADESH	SITAPUR	SITAPUR	UP17
469	UTTAR PRADESH	SONBHADRA	SONBHADRA	UP42
470	UTTAR PRADESH	SULTANPUR	SULTANPUR	UP40
471	UTTAR PRADESH	UNNAO	UNNAO	UP59
472	UTTAR PRADESH	VARANASI	VARANASI	UP18
473	UTTARAKHAND	ALMORA	ALMORA	UK09
474	UTTARAKHAND	DEHRADUN	DEHRADUN	UK01
475	UTTARAKHAND	HALDWANI	HALDWANI	UK02
476	UTTARAKHAND	HARIDWAR	HARIDWAR	UK03
477	UTTARAKHAND	NAINITAL	NAINITAL	UK04
478	UTTARAKHAND	TEHRI GARHWAL	NEW TEHRI	UK10
479	UTTARAKHAND	PANTNAGAR	PANTNAGAR	UK05
480	UTTARAKHAND	PAURI GARHWAL	PAURI GARHWAL	UK08
481	UTTARAKHAND	ROORKEE	ROORKEE	UK06
482	UTTARAKHAND	UDHAM SINGH NAGAR	UDHAM SINGH NAGAR	UK07

483	WEST BENGAL	PASCHIM BARDHAMAN	ASANSOL	WB01
484	WEST BENGAL	BANKURA	BANKURA	WB16
485	WEST BENGAL	PURBA BARDHAMAN	BURDWAN (BARDHAMAN)	WB02
486	WEST BENGAL	DARJEELING	DARJEELING	WB18
487	WEST BENGAL	DURGAPUR	DURGAPUR	WB04
488	WEST BENGAL	HOOGHLY	HOOGHLY	WB06
489	WEST BENGAL	HOWRAH	HOWRAH	WB07
490	WEST BENGAL	JALPAIGURI	JALPAIGURI	WB19
491	WEST BENGAL	NADIA	KALYANI	WB08
492	WEST BENGAL	KOLKATA	KOLKATA	WB10
493	WEST BENGAL	MALDA	MALDA	WB20
494	WEST BENGAL	MURSHIDABAD	MURSHIDABAD	WB21
495	WEST BENGAL	COOCH BEHAR	NADIA	WB17
496	WEST BENGAL	NORTH 24 PARGANAS	NORTH 24 PARGANAS	WB12
497	WEST BENGAL	PASCHIM MEDINIPUR	PASCHIM MEDINIPUR	WB13
498	WEST BENGAL	PURBA MEDINIPUR	PURBA MEDINIPUR	WB14
499	WEST BENGAL	SILIGURI	SILIGURI	WB11
500	WEST BENGAL	SOUTH 24 PARGANAS	SOUTH 24 PARGANAS	WB15
501	WEST BENGAL	BIRBHUM	SURI	WB22
502	OUT-SIDE INDIA	MANAMA	BAHRAIN	ZZ01
503	OUT-SIDE INDIA	COLOMBO	COLOMBO	ZZ02
504	OUT-SIDE INDIA	DOHA	DOHA	ZZ03
505	OUT-SIDE INDIA	DUBAI	DUBAI	ZZ04
506	OUT-SIDE INDIA	JAKARTA	JAKARTA	ZZ13
507	OUT-SIDE INDIA	KATHMANDU	KATHMANDU	ZZ05
508	OUT-SIDE INDIA	KUALA LAMPUR	KUALA LAMPUR	ZZ11
509	OUT-SIDE INDIA	KUWAIT CITY	KUWAIT	ZZ10
510	OUT-SIDE INDIA	LAGOS	LAGOS/ABUJA	ZZ12
511	OUT-SIDE INDIA	MUSCAT	MUSCAT	ZZ06
512	OUT-SIDE INDIA	RIYADH	RIYADH	ZZ07
513	OUT-SIDE INDIA	SHARJAH	SHARJAH	ZZ08
514	OUT-SIDE INDIA	SINGAPORE	SINGAPORE	ZZ09

<div align="right">**Appendix –II**</div>

Procedure for Online Payment of Fee and Helpline for Payment Related Queries

After completing Step 2 of the **Online** Application Form**,** the candidate may remit the examination fee **(Step 3)** in the following manner:

- Check the validity of the Debit/ Credit Card and keep it ready with you while logging on to the website for submitting Application Form. The candidates should enter the information asked for and make payment through a Debit/ Credit Card.
- Through Net Banking, check the balance in your account and keep all credentials ready with you while logging on to the website for making payment. The candidates should log in with his/her credentials of net banking and make payments accordingly.
- For payment through a UPI Service, check whether there is a requisite balance in the Bank Account / Wallet to which the concerned UPI is linked.
- For payment through Paytm, check whether there is a requisite balance in the Account / Wallet to which it is linked.

Prescribed Examination Fee (please see the Information at a Glance) can be paid through any Bank/Payment Gateway in any Payment Mode [service/processing charges per transaction and GST applicable thereon @ 18 % are to be borne by the candidate

S. No	Mode of Payment	ICICI BANK		HDFC BANK		CANARA BANK		STATE BANK OF INDIA		PAYTM	
1	Net Banking	ICICI	NIL Charge	HDFC	NIL Charge	Canara Bank	NIL Charge	SBI	Rs 5.00+GST	Rs 4 +GST	
		Other Banks	4.00 + GST	Other Banks	4.00 + GST	Other Banks	5.00 + GST	Other Banks			
2	All Debit Card	ICICI or Other Banks	Transaction upto Rs 2000/- : 0 %	HDFC or Other Banks	Transaction upto Rs 2000/- : 0 %	Canara Bank or Other Banks	Nil Charge	Nil	Transaction upto Rs 2000/-	Transaction upto Rs 2000/-	Only Rupay card, no charge.
			Transaction above Rs 2000/- : 0.5 % + GST		Transaction above Rs 2000/- : 0 %				Transaction above Rs 2000/-	Transaction above Rs 2000/-	Only Rupay card, no charge.
3	Credit Card	Domestic	0.40% of Transaction value	Domestic	0.40% of Fee + GST	Domestic	0.80 % of Fee + GST	Domestic : 0.80% of Fee+ GST (Minimum Rs 11/-)	Domestic	0.8% + GST	
		International	2.35% of Transaction value	International	Nil Charge	International	2.35 % of Fee+ GST	International : 3.50% of Fee+ GST (Minimum Rs 11/-)	International	3.5% + GST	
4	Unified Payment Interface (UPI)	ICICI or other banks	Transaction upto Rs 2000/- : 0 %		Nil Charge				Transaction upto Rs 2000/-	Transaction upto Rs 2000/-	0 %
			Transaction above Rs 2000/- : 5.0 % + GST						Transaction above Rs 2000/-	Transaction above Rs 2000/-	0 %
										PAYTM Wallet Paytm postpaid (Apply now, Pay later)	1.10%+GST 1.50% + GST

Note: In case, the fee payment status is not 'OK', or the Confirmation Page of the Online Application is not generated after fee payment (completion of Step 3) of the candidate is advised to

contact the helpline number/email of the concerned Bank/Payment Gateway Integrator, as mentioned below:-

(a) If Paying through State Bank of India (SBI):

Level	Name	Email ID	Contact Number
1	Helpdesk	dgmcs.cc@sbi.co.in	18004253800
2	Helpdesk3	sbi.05222@sbi.co.in	08026599990
3	Customer Care	agmcustomer.Ihodel@sbi.co.in	1800112211
4	Through SMS	UNHAPPY (add text)	8008202020

(b) If Paying through Canara Bank:

Level	Name	Email ID	Contact Number
1	Helpdesk	pgsupport@billdesk.com	01202400850/1 9971262371
2	Complaint Management Services	genadmnronoida@canarabank.com	01202400850/1
3	Customer Care	genadmnronoida@canarabank.com	9971262371
4	Through SMS	genadmnronoida@canarabank.com	01202400850/1

(c) If Paying through HDFC Bank:

Level	Name	Email ID	Contact Number
1	Shri Vikram Singh	vikram.singh4@hdfcbank.com	9799810080
2.	Amit Singh	amit.singh26@hdfcbank.com	7428869770
3	Shri Ripon Bhattacharjee	ripon.bhattacharjee@hdfcbank.com	9625031697

(d) If Paying through ICICI Bank:

Level	Name	Email ID	Contact Number
1	Aiysha Khatun	support.nta@ingenico.com	01204728426
2	Vishal Kumar	vishal.kumar5@icicibank.com	7428928047
3	Mohit Bhatia	mohit.bhatia@icicibank.com	9810086455

(e) If Paying through PAYTM:

Level	Name	Email ID	Contact Number
1	Shailesh	education.support@paytm.com	0120-4789525
2	Ambreen Fatma	education.support@paytm.com	0120-4789526

Computer Based Test (CBT)

The major examinations being conducted by NTA are Computer-Based Tests (CBT). A CBT requires candidates to sit in front of a computer terminal (node) allocated to them against their Roll number and Admit card. After logging the candidate will get detailed instructions for the examinations. At the designated time of the start of the examination, the candidates will be able to proceed and see the questions on the computer screen using the computer mouse. Candidates will have the option to change/modify/edit/answers already entered at any time during the examination.

Procedure for appearing in Computer Based Test (CBT):

(Sample/mock test will be available on NTA website: www.nta.ac.in for hands-on practice)

(a) A computer terminal (node) indicating Roll Number will be allocated to each candidate. Candidates should find and sit on their allocated computers only. Any candidate found to have changed room/hall or the computer on their own other than the one allotted would lead to cancellation of candidature and no plea in this regard would be entertained.

(b) For login, the candidate will have to enter a **login ID and password**. The computer terminal allotted to the candidate will display the WELCOME login screen, Candidate's photograph and NET subject opted by the candidate.

Candidate Login Page

Candidate Welcome Screen

(c) After login, the candidate shall be able to see the detailed instructions for the examination. Candidates are advised to go through the instructions carefully regarding the type of questions and marking scheme. At the designated time of the start of the examination, the candidates will be able to proceed and see the questions on the computer screen.

Please read the instructions carefully

General Instructions:

1. The total duration of the examination is **180** minutes for **Paper 1 (B.E./B.Tech)** and **210 minutes** for (B.Arch and B.Planning) both.
2. The clock will be set at the server. The countdown timer in the top right corner of the screen will display the remaining time available for you to complete the examination. When the timer reaches zero, the examination will end by itself. You will not be required to end or submit your examination.
3. The Question Palette displayed on the right side of the screen will show the status of each question using one of the following symbols:

1	You have not visited the question yet.
2	You have not answered the question.
3	You have answered the question.
4	You have NOT answered the question, but have marked the question for review.
5	The question(s) "Answered and Marked for Review" will be considered for evaluation.

4. The 'Marked for Review' status for a question simply indicates that you would like to look at that question again.

5. You can click on the ">" arrow which appears to the left of the question palette to collapse the question palette thereby maximizing the question window. To view the question palette again, you can click on "< " which appears on the right side of the question window.
6. You can click on your "Profile" image on the top right corner of your screen to change the language during the exam for the entire question paper. On clicking on the Profile image, you will get a drop-down to change the question content to the desired language.

7. You can click on ⬇ to navigate to the bottom and ⬆ to navigate to the top of the question area, without scrolling.

Navigating to a Question:

8. To answer a question, do the following:
    a. Click on the question number in the Question Palette at the right of your screen to go to that question directly. Note that using this option does NOT save your answer to the current question.

b. Click on **Save & Next** to save your answer for the current question and then go to the next question.
c. Click on **Mark for Review & Next** to save your answer for the current question, mark it for review, and then go to the next question.

Answering a Question :

9. Procedure for answering a Multiple Choice Type question:

a. To select your answer, click on the button of one of the options.
b. To deselect your chosen answer, click on the button of the chosen option again or click on the **Clear Response** button.
c. To change your chosen answer, click on the button of another option.
d. To save your answer, you must click on the Save & Next button
e. To mark the question for review, click on the **'Mark for Review & Next'** button.

10. To change your answer to a question that has already been answered, first select that question for answering and then follow the procedure for answering that type of question.

Navigating through sections:

11. Sections in this question paper are displayed on the top bar of the screen. Questions in a section can be viewed by clicking on the Section name. The section you are currently viewing is highlighted.
12. After clicking the **Save and Next** button on the last question for a Section, you will automatically be taken to the first question of the next section.
13. You can shuffle between sections and questions anytime during the examination as per your convenience only during the time stipulated.
14. The candidate can view the corresponding section summary as part of the legend that appears in every section above the question palette.

Instruction for Question:

15. For the correctness of the translation for a particular language, only the **English version** will be considered as the final version for evaluation purposes.

The keyboard attached to the computer, if any, will be disabled during the entire duration of the examination. Depending on the type of question, the answers to questions can either be entered by clicking on the virtual on-screen keyboard (numeric or otherwise) using the computer mouse or by clicking the chosen option(s) using the computer mouse. Candidates will have the option to change/modify answers already entered anytime during the entire duration of the examination.

In case the computer/mouse allotted to any candidate malfunctions anytime during the test, he/she will be immediately allotted another computer system and the time lost due to this will be adjusted in the server so as to give the candidate the full allotted time.

The on-screen computer clock counter of every candidate will be set at the server. The countdown timer on the top right side of the computer screen will display the time remaining (in minutes) available for the candidate to complete the examination. When the timer reaches zero, the examination will end by itself. The candidates will not be required to end or submit the examination.

The Question Palette displayed on the screen will show the status of each question using one of the following symbols:

The question(s) "Answered and Marked for Review" status for a question indicates that the candidates would like to have a relook at that question again. A candidate has the option of answering a question and simultaneously "Marked for Review", these answers will be considered for evaluation. However, if a candidate has simply put "Marked for Review" for a question without answering it, the corresponding question marked for review without an answer will not be considered for evaluation. It may be noted that a candidate can return to any "Marked for Review" question any time during the examination by clicking on the corresponding question number icon displayed on the Question Palette of the corresponding section.

(d) The candidates can click on the ">" arrow which appears to the left of the question palette to collapse the question palette thereby maximizing the question viewing window. To view the question palette again, the candidate can click on "<" which appears on the right side of the question window.

(e) Candidates can click on to navigate to the bottom and to navigate to the top of the question area, without scrolling. Using the computer mouse the candidate can scroll up and down the question viewing area for viewing the entire question.

(f) The full paper can be viewed by clicking the "Question Paper" icon on the top right corner of the screen.

(g) Blank Sheets for doing Rough Work/calculations shall be provided to the candidates. The Blanks Sheets would have a Header page for the candidates to write down his/her Name and Roll Number. All calculations/writing work is to be done only in the Blank Sheets provided at the Centre in the Examination Room/Hall and on completion of the test candidates must hand over the rough sheets to the invigilator on duty in the Room/Hall.

(h) Navigating to a Question To navigate between questions within a Paper, the candidate needs to do the following:

(a) Click on the question number in the Question Palette at the right of the screen to go to that numbered question directly. Note that using this option does NOT save the answer to the currently displayed question.

(b)   Click on "Save and Next" to save the answer to any question. Clicking on "Save and Next" will save the answer for the current question and the next question will be displayed on the candidate's computer screen.

(c)   Click on "Mark for Review and Next" to mark a question for review (without answering it) and proceed to the next question.

01	02	03	04	05	06	07
08	09	10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47
48	49	50	51	52	53	54	55

(i) Answering a Question

To navigate between questions within a Paper, the candidate needs to do the following:

Procedure for answering a Multiple-Choice type question:

(a)   To select the option(s), click on the corresponding button(s) of the option(s).

(b)   To deselect the chosen answer, click on the button of the chosen option again or click on the "Clear Response" button.

(c)   To save the answer, the candidate MUST click on the "Save and Next" button.

(d)   To mark the question for review (without answering it), click on the "Mark for Review and Next" button.

(j) Navigating through sections:

(i)   Sections in the question paper are displayed on the top bar of the screen. Questions in a section can be viewed by clicking on the section name. The section in which the candidate is currently viewing will be highlighted.

(ii)   After clicking the "Save and Next" button on the last question for a section, the candidate will automatically be taken to the first question of the next section.

(iii) Candidates can shuffle between sections and questions within sections anytime during the examination as per the convenience only during the time stipulated.

(iv)   The candidate can view the corresponding section summary as part of the legend that appears in every section above the question palette.

(k)   Procedure for answering questions that require inputs from the on-screen virtual keyboard (numeric or otherwise):

(a) The candidate will have to use the on-screen virtual keyboard (that would be displayed just below the question statement of these types of questions) and the attached computer mouse to enter his/her answer in the space provided for the answer.

On-Screen Virtual Keyboard

(b) The answer can be changed, if required, anytime during the test. To save the answer, the candidate MUST click on the "Save and Next" button.

(c) To mark the question for review (without answering it), click on the "Mark for Review and Next" button.

The candidates will have the option to change previously saved answer to any question, anytime during the entire duration of the test. To change the answer to a question that has already been answered, first select the corresponding question from the Question Palette, then click on "Clear Response" to clear the previously entered answer and subsequently follow the procedure for answering that type of question.

(l) ROUGH WORK:

All calculations/writing work is to be done only in the rough sheet provided at the Centre in the Examination Room/Hall and on completion of the test candidates must hand over the rough sheets to the invigilator on duty in the Room/Hall.

NTA: Test Practice Centres (TPCs)

What is a Test Practice Centre (TPCs)?

The Ministry of Human Resource Development mandated the NTA to set up, establish and create a network of Test Practice Centres for candidates, especially in remote and rural areas to enable them to practice and be comfortable in taking a Computer Based Test (CBT). This facility is completely free of cost. Candidates can register online (on the NTA website) where they are provided a convenient TPC near to their location to practice on a given computer node. This facilitates and eases the process of being able to take a Computer Based Test (CBT). The entire experience of using a computer is close to the actual experience of taking a CBT. All efforts are made to provide practice tests and questions so that candidates can familiarize themselves with logging into the system, go through the detailed instructions regarding the test, use the mouse or numeric keyboard on-screen (virtual) for attempting each question, scroll down to the next question, navigate between questions, review and edit their options and submit questions.

The objective of TPCs is primarily to organize test practice for the upcoming NTA examinations.

Procedure to be adopted for compilation of NTA scores for multi-session Papers
(Normalization procedure based on PERCENTILE SCORE)

NTA may conduct examinations on multiple dates, generally in two sessions per day. The candidates will be given different sets of questions per session and it is quite possible that in spite of all efforts of maintaining equivalence among various question papers, the difficulty level of these question papers administered in different sessions may not be exactly the same. Some of the candidates may end up attempting a relatively tougher set of questions when compared to other sets. The candidates who attempt the comparatively tougher examination are likely to get lower marks as compared to those who attempt the easier one. In order to overcome such a situation, **"Normalization procedure based on Percentile Score"** will be used for ensuring that candidates are neither benefitted nor disadvantaged due to the difficulty level of the examination. With the objective of ensuring that a candidate's true merit is identified and that a level playing field is created in the above context, the Normalization Procedure, set out below shall be adopted, for compiling the NTA scores for multi-session papers.

The process of Normalization is an established practice for comparing candidate scores across multi-session papers and is similar to those being adopted in other large educational selection tests conducted in India. For normalization across sections, NTA shall use the percentile equivalence.

Percentile Scores: Percentile scores are scores based on the relative performance of all those who appear for the examination. The marks obtained are transformed into a scale ranging from 100 to 0 for each session of examinees.

The Percentile Score indicates the percentage of candidates that have scored EQUAL TO OR BELOW (same or lower raw scores) **that particular Percentile in that examination. Therefore the topper (highest score) of each session will get the same Percentile of 100 which is desirable. The marks obtained in between the highest and lowest scores are also converted to appropriate Percentiles.**

The Percentile score will be the Normalized Score for the examination (instead of the raw marks of the candidate) and shall be used for the preparation of the merit lists**.**

The Percentile Scores will be calculated up to 7 decimal places to avoid the bunching effect and reduce ties.

The Percentile score of a Candidate is calculated as follows:

$$\frac{100 \text{ X Number of candidates appeared in the 'Session' with raw score EQUAL TO OR LESS than the candidate}}{\text{The total number of the candidates who appeared in the 'Session'}}$$

Note: The Percentile of the Total shall **NOT be** an aggregate or average of the Percentile of the individual subject. The percentile score is not the same as the percentage of marks obtained.

Example: Suppose a test was held in 4 sessions of examinees as per details given below:

(Allocation of Days and shifts were done randomly)

(a) **The distribution of candidates were as follows:**

Session-1: Day-1 Shift-1, **Session-2:** Day-1 Shift-2, **Session-3:** Day-2 Shift-1 and **Session-4:** Day-2 Shift-2

Session	Day/Shift	No of Candidates			Marks	
		Absent	Appeared	Total	Highest	Lowest
Session-1	Day-1 Shift-1	3974	28012	31986	335	-39
Session-2	Day-1 Shift-2	6189	32541	38730	346	-38
Session-3	Day-2 Shift-1	6036	41326	47362	331	-49
Session-4	Day-2 Shift-2	9074	40603	49677	332	-44
Total (Session-1 to Session-4)		25273	142482	167755	346	-49

In this method of scoring the HIGHEST RAW SCORE in each paper (irrespective of the raw scores) will be the 100 Percentile indicating that 100% of candidates have scored equal to or lesser than the highest scorer/ topper for that session.

Highest Raw Score and Percentile Score: All the highest raw scores will have a normalized Percentile Score of 100 for their respective session.

Session	Total Candidates Appeared	Highest Raw Score	Candidates who scored EQUAL OR LESS THAN Highest Raw Score	Percentile Score	Remarks
Session-1	28012	335	28012	100.0000000 [(28012/28012)*100]	i.e. **all the highest raw scores** would be **normalized** to 100 Percentile Score for their respective session.
Session -2	32541	346	32541	100.0000000 [(32541/32541)*100]	
Session -3	41326	331	41326	100.0000000 [(41326/41326)*100]	
Session -4	40603	332	40603	100.0000000 [(40603/40603)*100]	

Lowest Raw Score and Percentile Score: The percentile Score of all the lowest raw scores will depend on the total number of candidates who have taken the examination for their respective sessions.

Session	Total Candidates Appeared	Lowest Raw Score	Candidates who scored EQUAL OR LESS THAN Lowest Raw Score	Percentile Score	Remarks
Session -1	28012	-39	1	0.0035699 [(1/28012)*100]	i.e. Percentile Score of **all the lowest raw scores is different** i.e. Percentile Score depends on the total number of candidates who have taken the examination for their respective sessions.
Session -2	32541	-38	1	0.0030730 [(1/32541)*100]	
Session -3	41326	-49	1	0.0024198 [(1/41326)*100]	
Session -4	40603	-44	1	0.0024629 [(1/40603)*100]	

The following is a further explanation of the interpretation of the raw scores and Percentile Score in Session-3 (Day-2 and Shift-1) with 41326 candidates who have taken the examination.

Candidate	Percentile Score	No of Candidates	Raw Score	Remark
A	**100.0000000** [(41326/41326)*100]	**1**	**331**	This indicates that amongst those who appeared, 100% have scored either EQUAL TO OR LESS THAN candidate A (**331 raw scores**).
				It also indicates that no candidate has scored more than candidate A (**331 raw scores**).
B	**90.1224411** [(37244/41326)*100]	**77**	**121**	This indicates that amongst those who appeared, 90.1224411% have scored either EQUAL TO OR LESS THAN candidate B (**121 raw scores**).
				It also indicates that the remaining candidates have scored more than candidate B (**121 raw scores**).

C	50.4549194 [(20851/41326)*100]	381	41	This indicates that amongst those who appeared, 50.4549194% have scored either EQUAL TO OR LESS THAN candidate C (**41 raw scores**).
				It also indicates that the remaining those who appeared have scored more than candidate C (**41 raw scores**).
D	31.7040120 [(13102/41326)*100]	789	25	This indicates that amongst those who appeared, 31.7040120% have scored either EQUAL TO OR LESS THAN the candidate D (**25 raw scores**)
				It also indicates that the remaining candidates have scored more than candidate D (**25 raw scores**).
E	1.1034216 [(456/41326)*100]	100	-15	Indicates that amongst those who appeared, 1.1034216% have scored either EQUAL TO OR LESS THAN the candidate E (**-15 raw score**)
				It also indicates that the remaining candidates have scored more than candidate E (**-15 raw score**)

STEP-BY-STEP PROCEDURE FOR NORMALIZATION AND PREPARATION OF RESULT:

Step-1: Distribution of Examinees in two shifts:

Candidates have to be distributed into two sessions randomly so that each session has an approximately equal number of candidates. These two sessions would be as follows:

Session-1: Day-1 Shift-1, Session-**2:** Day-1 Shift-2

In the event of a more number of days or less number of shifts, the candidates will be divided accordingly.

This will ensure that there is no bias in the distribution of candidates who shall take the examination. Further, with a large population of examinees spread over the entire country the possibility of such bias becomes remote.

Step-2: Preparation of Results for each Session:

The examination results for **each session** would be prepared in the form of
➢ Raw Scores
➢ Percentiles Scores of Total raw scores.

The Percentiles would be calculated for each candidate in the Session as follows:
Let TP1 be the Percentile Score of Total Raw Score of that candidate.

$$\text{Total Percentile (TP1)} = 100 \times \frac{\text{No. of candidates appeared from the session with raw score EQUAL TO OR LESS than T1 score}}{\text{Total No. of candidates appeared in the session}}$$

Step-3: Compilation of NTA score and Preparation of Result:

The Percentile scores for the Total Raw Score for all the sessions (**Session-1:** Day-1 Shift-1**, Session-2:** Day-1 Shift-2) **as calculated in Step-2 above would be merged and shall be called the NTA scores which will then be used for the compilation of results and further processing for deciding the allocation.**

In the events of the percentiles for the multi-shifts being dissimilar/unequal, the lowest will be the eligibility cut-off for that category for all candidates (i.e. all shifts).

For Example: In the examination held in two shifts, if the 40% marks correspond to a Percentile score of 78 in Shift 1 and 79 in Shift 2, then all those equal to or above 78 percentiles (Percentile score of 100 to 78) in both shifts will become eligible in General Category. A similar method will be adopted for the other categories to determine eligibility cut-offs. In case the examination is held in more number of shifts the same principle shall apply.

SYLLABUS for JEE (Main)-2022

Syllabus for Paper-1 (B.E./B.Tech.)- Mathematics, Physics, and Chemistry

MATHEMATICS

UNIT 1: SETS, RELATIONS, AND FUNCTIONS:

Sets and their representation: Union, intersection and complement of sets and their algebraic properties; Power set; Relation, Type of relations, equivalence relations, functions; one-one, into and onto functions, the composition of functions.

UNIT 2: COMPLEX NUMBERS AND QUADRATIC EQUATIONS:

Complex numbers as ordered pairs of reals, Representation of complex numbers in the form a + ib and their representation in a plane, Argand diagram, algebra of complex number, modulus and argument (or amplitude) of a complex number, square root of a complex number, triangle inequality, Quadratic equations in real and complex number system and their solutions Relations between roots and co-efficient, nature of roots, the formation of quadratic equations with given roots.

UNIT3: MATRICES AND DETERMINANTS:

Matrices, algebra of matrices, type of matrices, determinants, and matrices of order two and three, properties of determinants, evaluation of determinants, area of triangles using determinants, Adjoint, and evaluation of inverse of a square matrix using determinants and elementary transformations, Test of consistency and solution of simultaneous linear equations in two or three variables using determinants and matrices.

UNIT 4: PERMUTATIONS AND COMBINATIONS:

The fundamental principle of counting, permutation as an arrangement and combination as section, Meaning of P (n,r) and C (n,r), simple applications.

UNIT 5: MATHEMATICAL INDUCTIONS:

Principle of Mathematical Induction and its simple applications.

UNIT 6: BINOMIAL THEOREM AND ITS SIMPLE APPLICATIONS:

Binomial theorem for a positive integral index, general term and middle term, properties of Binomial coefficients, and simple applications.

UNIT 7: SEQUENCE AND SERIES:

Arithmetic and Geometric progressions, insertion of arithmetic, geometric means between two given numbers, Relation between A.M and G.M sum up to n terms of special series; Sn, Sn2, Sn3. Arithmetico-Geometric progression.

UNIT 8: LIMIT, CONTINUITY, AND DIFFERENTIABILITY:

Real–valued functions, algebra of functions, polynomials, rational, trigonometric, logarithmic, and exponential functions, inverse function. Graphs of simple functions. Limits, continuity, and differentiability. Differentiation of the sum, difference, product, and quotient of two functions. Differentiation of trigonometric, inverse trigonometric, logarithmic, exponential, composite and implicit functions; derivatives of order up to two, Rolle's and Lagrange's Mean value Theorems, Applications of derivatives: Rate of change of quantities, monotonic-Increasing and decreasing functions, Maxima and minima of functions of one variable, tangents and normal.

UNIT 9: INTEGRAL CALCULAS:

Integral as an anti-derivative, Fundamental Integrals involving algebraic, trigonometric, exponential, and logarithms functions. Integrations by substitution, by parts, and by partial functions. Integration using trigonometric identities.

Evaluation of simple integrals of the type

$$\int \frac{dx}{x^2+a^2} \quad , \quad \int \frac{dx}{\sqrt{x^2 \pm a^2}} \quad , \int \frac{dx}{a^2 - x^2} \quad ,$$

$$\int \frac{dx}{\sqrt{a^2 - x^2}} \quad , \quad \int \frac{dx}{ax^2+bx+c} \quad , \int \frac{dx}{\sqrt{ax^2 + bx + c}} \quad ,$$

$$\int \frac{(px+q)dx}{ax^2+bx+c} \quad ,$$

$$\int \frac{(px+q)dx}{\sqrt{ax^2+ bx+c}} \quad \int \sqrt{a^2 \pm x^2} \; dx \quad ,$$

$$\int \sqrt{x^2 - a^2} \; dx$$

Integral as limit of a sum. The fundamental theorem of calculus, properties of definite integrals. Evaluation of definite integrals, determining areas of the regions bounded by simple curves in standard form.

UNIT 10: DIFFRENTIAL EQUATIONS

Ordinary differential equations, their order, and degree, the formation of differential equations, solution of differential equation by the method of separation of variables, solution of a homogeneous and linear differential equation of the type

$$\frac{dy}{dx} + p(x)y = q(x)$$

UNIT 11: CO-ORDINATE GEOMETRY

Cartesian system of rectangular coordinates in a plane, distance formula, sections formula, locus, and its equation, translation of axes, the slope of a line, parallel and perpendicular lines, intercepts of a line on the co-ordinate axis.

Straight line

Various forms of equations of a line, intersection of lines, angles between two lines, conditions for concurrence of three lines, the distance of a point form a line, equations of internal and external by sectors of angles between two lines co-ordinate of the centroid, orthocentre, and circumcentre of a triangle, equation of the family of lines passing through the point of intersection of two lines.

Circle, conic sections

A standard form of equations of a circle, the general form of the equation of a circle, its radius and central, equation of a circle when the endpoints of a diameter are given, points of intersection of a line and a circle with the centre at the origin and condition for a line to be tangent to a circle, equation of the tangent, sections of conics, equations of conic sections (parabola, ellipse, and hyperbola) in standard forms, condition for Y = mx +c to be a tangent and point (s) of tangency.

UNIT 12: THREE DIMENSIONAL GEOMETRY

Coordinates of a point in space, the distance between two points, section formula, directions ratios, and direction cosines, the angle between two intersecting lines. Skew lines, the shortest distance between them, and its equation. Equations of a line and a plane in different forms, the intersection of a line and a plane, coplanar lines.

UNIT 13: VECTOR ALGEBRA

Vectors and scalars, the addition of vectors, components of a vector in two dimensions and three-dimensional space, scalar and vector products, scalar and vector triple product.

UNIT 14: STATISTICS AND PROBABILITY

Measures of discretion; calculation of mean, median, mode of grouped and ungrouped data calculation of standard

deviation, variance and mean deviation for grouped and ungrouped data.

Probability: Probability of an event, addition and multiplication theorems of probability, Baye's theorem, probability distribution of a random variate, Bernoulli trials, and binomial distribution.

UNIT 15: TRIGONOMETRY

Trigonometrical identities and equations, trigonometrical functions, inverse trigonometrical functions, and their properties, heights, and distance.

UNIT 16: MATHEMATICAL REASONING

Statement logical operations and, or, implies, implied by, if and only if, understanding of tautology, contradiction, converse, and contrapositive.

PHYSICS

UNIT 1: PHYSICS AND MEASUREMENT

Physics, technology, and society, S I Units, fundamental and derived units, least count, accuracy and precision of measuring instruments, Errors in measurement, Dimensions of Physics quantities, dimensional analysis, and its applications.

UNIT 2: KINEMATICS

The frame of reference, motion in a straight line, Position- time graph, speed and velocity; Uniform and non-uniform motion, average speed and instantaneous velocity, uniformly accelerated motion, velocity-time, position-time graph, relations for uniformly accelerated motion, Scalars and Vectors, Vector. Addition and subtraction, zero vector, scalar and vector products, Unit Vector, Resolution of a Vector. Relative Velocity, Motion in a plane, Projectile Motion, Uniform Circular Motion.

UNIT 3: LAWS OF MOTION

Force and inertia, Newton's First law of motion; Momentum, Newton's Second Law of motion, Impulses; Newton's Third Law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces.

Static and Kinetic friction, laws of friction, rolling friction.

Dynamics of uniform circular motion: centripetal force and its applications.

UNIT 4: WORK, ENERGY, AND POWER

Work done by a content force and a variable force; kinetic and potential energies, work-energy theorem, power.

The potential energy of spring conservation of mechanical energy, conservative and neoconservative forces; Elastic and inelastic collisions in one and two dimensions.

UNIT5: ROTATIONAL MOTION

Centre of the mass of a two-particle system, Centre of the mass of a rigid body; Basic concepts of rotational motion; a moment of a force; torque, angular momentum, conservation of angular momentum and its applications; the moment of inertia, the radius of gyration. Values of moments of inertia for

simple geometrical objects, parallel and perpendicular axes theorems, and their applications. Rigid body rotation equations of rotational motion.

UNIT 6: GRAVITATION

The universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Kepler's law of planetary motion. Gravitational potential energy; gravitational potential. Escape velocity, Orbital velocity of a satellite. Geo stationary satellites.

UNIT 7: PROPERTIES OF SOLIDS AND LIQUIDS

Elastic behaviour, Stress-strain relationship, Hooke's Law. Young's modulus, bulk modulus, modulus of rigidity. Pressure due to a fluid column; Pascal's law and its applications. Viscosity. Stokes' law. terminal velocity, streamline, and turbulent flow. Reynolds number. Bernoulli's principle and its applications. Surface energy and surface tension, angle of contact, application of surface tension - drops, bubbles, and capillary rise. Heat, temperature, thermal expansion; specific heat capacity, calorimetry; change of state, latent heat. Heat transfer-conduction, convection, and radiation. Newton's law of cooling.

UNIT 8: THERMODYNAMICS

Thermal equilibrium, zeroth law of thermodynamics, the concept of temperature. Heat, work, and internal energy. The first law of thermodynamics. The second law of thermodynamics: reversible and irreversible processes. Carnot engine and its efficiency.

UNIT 9: KINETIC THEORY OF GASES

Equation of state of a perfect gas, work done on compressing a gas, Kinetic theory of gases - assumptions, the concept of pressure. Kinetic energy and temperature: RMS speed of gas molecules: Degrees of freedom. Law of equipartition of energy, applications to specific heat capacities of gases; Mean free path. Avogadro's number.

UNIT 10: OSCILLATIONS AND WAVES

Periodic motion - period, frequency, displacement as a function of time. Periodic functions. Simple harmonic motion (S.H.M.) and its equation; phase: oscillations of a spring -restoring force and force constant: energy in S.H.M. - Kinetic and potential energies; Simple pendulum - derivation of expression for its time period: Free, forced and damped oscillations, resonance.

Wave motion. Longitudinal and transverse waves, speed of a wave. Displacement relation for a progressive wave. Principle of superposition of waves, a reflection of waves. Standing waves in strings and organ pipes, fundamental mode and harmonics. Beats. Doppler Effect in sound

UNIT 11: ELECTROSTATICS

Electric charges: Conservation of charge. Coulomb's law forces between two point charges, forces between multiple charges: superposition principle and continuous charge distribution.

Electric field: Electric field due to a point charge, Electric field lines. Electric dipole, Electric field due to a dipole. Torque on a dipole in a uniform electric field.

Electric flux. Gauss's law and its applications to find field due to infinitely long uniformly charged straight wire, uniformly charged infinite plane sheet, and uniformly charged thin spherical shell. Electric potential and its calculation for a point charge, electric dipole and system of charges; Equipotential surfaces, Electrical potential energy of a system of two point charges in an electrostatic field.

Conductors and insulators. Dielectrics and electric polarization, capacitor, the combination of capacitors in series and parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates. Energy stored in a capacitor.

UNIT 12: CURRENT ELECTRICITY

Electric current. Drift velocity. Ohm's law. Electrical resistance. Resistances of different materials. V-I characteristics of Ohmic and non-ohmic conductors. Electrical energy and power. Electrical resistivity. Colour code for resistors; Series and parallel combinations of resistors; Temperature dependence of resistance.

Electric Cell and its Internal resistance, potential difference and emf of a cell, a combination of cells in series and parallel. Kirchhoff's laws and their applications. Wheatstone bridge. Metre Bridge. Potentiometer - principle and its applications.

UNIT 13: MAGNETIC EFFECTS OF CURRENT AND MAGNETISM

Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long current carrying straight wire and solenoid. Force on a moving charge in uniform magnetic and electric fields. Cyclotron.

Force on a current-carrying conductor in a uniform magnetic field. The force between two parallel currents carrying conductors-definition of ampere. Torque experienced by a current loop in a uniform magnetic field: Moving coil galvanometer, its current sensitivity, and conversion to ammeter and voltmeter.

Current loop as a magnetic dipole and its magnetic dipole moment. Bar magnet as an equivalent solenoid, magnetic field lines; Earth's magnetic field and magnetic elements. Para-, dia- and ferromagnetic substances. Magnetic susceptibility and permeability. Hysteresis. Electromagnets and permanent magnets.

UNIT 14: ELECTROMAGNETIC INDUCTION AND ALTERNATING CURRENTS

Electromagnetic induction: Faraday's law. Induced emf and current: Lenz's Law, Eddy currents. Self and mutual inductance. Alternating currents, peak

and RMS value of alternating current/ voltage: reactance and impedance: LCR series circuit, resonance: Quality factor, power in AC circuits, wattless current. AC generator and transformer.

UNIT 15: ELECTROMAGNETIC WAVES

Electromagnetic waves and their characteristics, Transverse nature of electromagnetic waves, Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet. X-rays. Gamma rays), Applications of e.m. waves.

UNIT 16: OPTICS

Reflection and refraction of light at plane and spherical surfaces, mirror formula. Total internal reflection and its applications. Deviation and Dispersion of light by a; prism; Lens Formula. Magnification. Power of a Lens. Combination of thin lenses in contact. Microscope and Astronomical Telescope (reflecting and refracting) and their magnifying powers.

Wave optics: wavefront and Huygens' principle. Laws of reflection and refraction using Huygens principle. Interference, Young's double-slit experiment and expression for fringe width, coherent sources, and sustained interference of light. Diffraction due to a single slit, width of central maximum. Resolving power of microscopes and astronomical telescopes. Polarization, plane-polarized light: Brewster's law, uses of plane-polarized light and Polaroid.

UNIT 17: DUAL NATURE OF MATTER AND RADIATION

Dual nature of radiation. Photoelectric effect. Hertz and Lenard's observations; Einstein's photoelectric equation: particle nature of light. Matter waves-wave nature of particle, de Broglie relation. Davisson-Germer experiment.

UNIT 18: ATOMS AND NUCLEI

Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum. Composition and size of nucleus, atomic masses, isotopes, isobars: isotones. Radioactivity-alpha. beta and gamma particles/rays and their properties; radioactive decay law. Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number, nuclear fission, and fusion.

UNIT 19: ELECTRONIC DEVICES

Semiconductors; semiconductor diode: 1-V characteristics in forward and reverse bias; diode as a rectifier; I-V characteristics of LED. the photodiode, solar cell, and Zener diode; Zener diode as a voltage regulator. Junction transistor, transistor action, characteristics of a transistor: transistor as an amplifier (common emitter configuration) and oscillator. Logic gates (OR. AND. NOT. NAND and NOR). Transistor as a switch.

UNIT 20: COMMUNICATION SYSTEMS

Propagation of electromagnetic waves in the atmosphere; Sky and space wave propagation. Need for modulation. Amplitude and Frequency Modulation, Bandwidth of signals. the bandwidth of Transmission medium, Basic Elements of a Communication System (Block Diagram only).

UNIT 21: EXPERIMENTAL SKILLS

Familiarity with the basic approach and observations of the experiments and activities:

1. Vernier calipers-its use to measure the internal and external diameter and depth of a vessel.
2. Screw gauge-its use to determine thickness/ diameter of thin sheet/wire.
3. Simple Pendulum-dissipation of energy by plotting a graph between the square of amplitude and time.
4. Metre Scale - the mass of a given object by the principle of moments.
5. Young's modulus of elasticity of the material of a metallic wire.
6. Surf ace tension of water by capillary rise and effect of detergents,
7. Co-efficient of Viscosity of a given viscous liquid by measuring terminal velocity of a given spherical **body,**
8. Plotting a cooling curve for the relationship between the temperature of a hot body and time.
9. Speed of sound in air at room temperature using a resonance tube,
10. Specific heat capacity of a given (i) solid and (ii) liquid by method of mixtures.
11. The resistivity of the material of a given wire using a metre bridge.
12. The resistance of a given wire using Ohm's law.
13. Potentiometer-
    i. Comparison of emf of two primary cells.
    ii. Determination of internal resistance of a cell.

14. Resistance and figure of merit of a galvanometer by half deflection method.
15. The focal length of;
    (i) Convex mirror
    (ii) Concave mirror, and
    (ii) Convex lens,
    using the parallax
    method.
16. The plot of the angle of deviation vs angle of incidence for a triangular prism.
17. Refractive index of a glass slab using a

travelling microscope.

18. Characteristic curves of a p-n junction diode in forward and reverse bias.

19. Characteristic curves of a Zener diode and finding reverse break down voltage.

20. Characteristic curves of a transistor and finding current gain and voltage gain.

21. Identification of Diode. LED, Transistor. IC. Resistor. A capacitor from a mixed collection of such items.

22. Using a multimeter to:

   (i) Identify the base of a transistor

   (ii) Distinguish between NPN and PNP type transistor

   (iii) See the unidirectional current in case of a diode and an LED.

   (iv) Check the correctness or otherwise of a given electronic component (diode, transistor, or IC).

CHEMISTRY

PHYSICAL CHEMISTRY

UNIT I: SOME BASIC CONCEPTS IN CHEMISTRY

Matter and its nature, Dalton's atomic theory: Concept of atom, molecule, element, and compound: Physical quantities and their measurements in Chemistry, precision, and accuracy, significant figures. S.I.Units, dimensional analysis: Laws of chemical combination; Atomic and molecular masses, mole concept, molar mass, percentage composition, empirical and molecular formulae: Chemical equations and stoichiometry.

UNIT 2: STATES OF MATTER

Classification of matter into solid, liquid, and gaseous states.

Gaseous State:

Measurable properties of gases: Gas laws - Boyle's law, Charle's law. Graham's law of diffusion. Avogadro's law, Dalton's law of partial pressure; Concept of Absolute scale of temperature; Ideal gas equation; Kinetic theory of gases (only postulates); Concept of average, root mean square and most probable velocities; Real gases, deviation from Ideal behaviour, compressibility factor, and van der Waals equation.

Liquid State:

Properties of liquids - vapour pressure, viscosity and surface tension, and effect of temperature on them (qualitative treatment only).

Solid State:

Classification of solids: molecular, ionic, covalent and metallic solids, amorphous and crystalline solids (elementary idea); Bragg's Law and its applications: Unit cell and lattices, packing in solids (fcc, bcc and hcp lattices), voids, calculations involving unit cell parameters, an imperfection in solids; Electrical and magnetic properties.

UNIT 3: ATOMIC STRUCTURE

Thomson and Rutherford atomic models and their limitations; Nature of electromagnetic radiation, photoelectric effect; Spectrum of the hydrogen atom. Bohr model of a hydrogen atom - its postulates, derivation of the relations for the energy of the electron and radii of the different orbits, limitations of Bohr's model; Dual nature of matter, de Broglie's relationship. Heisenberg uncertainty principle. Elementary ideas of quantum mechanics, quantum mechanics, the quantum mechanical model of the atom, its important features. Concept of atomic orbitals as one-electron wave functions: Variation of Ψ and Ψ^2 with r for 1s and 2s orbitals; various

quantum numbers (principal, angular momentum, and magnetic quantum numbers) and their significance; shapes of s, p, and d - orbitals, electron spin and spin quantum number: Rules for filling electrons in orbitals – Aufbau principle. Pauli's exclusion principle and Hund's rule, electronic configuration of elements, extra stability of half-filled and completely filled orbitals.

UNIT 4: CHEMICAL BONDING AND MOLECULAR STRUCTURE

Kossel - Lewis approach to chemical bond formation, the concept of ionic and covalent bonds.

Ionic Bonding: Formation of ionic bonds, factors affecting the formation of ionic bonds; calculation of lattice enthalpy.

Covalent Bonding: Concept of electronegativity. Fajan's rule, dipole moment: Valence Shell Electron Pair Repulsion (VSEPR) theory and shapes of simple molecules.

Quantum mechanical approach to covalent bonding: Valence bond theory - its important features, the concept of hybridization involving s, p, and d orbitals; Resonance.

Molecular Orbital Theory - Its important features. LCAOs, types of molecular orbitals (bonding, antibonding), sigma and pi-bonds, molecular orbital electronic configurations of homonuclear diatomic molecules, the concept of bond order, bond length, and bond energy.

Elementary idea of metallic bonding. Hydrogen bonding and its applications.

UNIT 5: CHEMICAL THERMODYNAMICS

Fundamentals of thermodynamics: System and surroundings, extensive and intensive properties, state functions, types of processes.

The first law of thermodynamics - Concept of work, heat internal energy and enthalpy, heat capacity, molar heat capacity; Hess's law of constant heat summation; Enthalpies of bond dissociation, combustion, formation, atomization, sublimation, phase transition, hydration, ionization, and solution.

The second law of thermodynamics - Spontaneity of processes; ΔS of the universe and ΔG of the system as criteria for spontaneity. $\Delta G°$ (Standard Gibbs energy change) and equilibrium constant.

UNIT 6: SOLUTIONS

Different methods for expressing the concentration of solution - molality, molarity, mole fraction, percentage (by volume and mass both), the vapour pressure of solutions and Raoult's Law - Ideal and non-ideal solutions, vapour pressure - composition, plots for ideal and non-ideal solutions; Colligative properties of dilute solutions - a relative lowering of vapour pressure, depression of freezing point, the elevation of boiling point and osmotic pressure; Determination of molecular mass using colligative properties; Abnormal value of molar mass, van't Hoff factor and its significance.

UNIT 7: EQUILIBRIUM

Meaning of equilibrium, the concept of dynamic equilibrium.

Equilibria involving physical processes: Solid-liquid, liquid - gas and solid-gas equilibria, Henry's law. General characteristics of equilibrium involving physical processes.

Equilibrium involving chemical processes: Law of chemical equilibrium, equilibrium constants (K_p and K_c) and their significance, the significance of ΔG and $\Delta G°$ in chemical equilibrium, factors affecting equilibrium concentration, pressure, temperature, the effect of catalyst; Le Chatelier's principle.

Ionic equilibrium: Weak and strong electrolytes, ionization of electrolytes, various concepts of acids and bases (Arrhenius. Bronsted - Lowry and Lewis) and their ionization, acid-base equilibria (including multistage ionization) and ionization constants, ionization of water. pH scale, common ion effect, hydrolysis of salts and pH of their solutions, the solubility of sparingly soluble salts and solubility products, buffer solutions.

UNIT 8: REDOX REACTIONS AND ELECTROCHEMISTRY

Electronic concepts of oxidation and reduction, redox reactions, oxidation number, rules for assigning oxidation number, balancing of redox reactions.

Electrolytic and metallic conduction, conductance in electrolytic solutions, molar conductivities and their variation with concentration: Kohlrausch's law and its applications.

Electrochemical cells - Electrolytic and Galvanic cells, different types of electrodes, electrode potentials including standard electrode potential, half - cell and cell reactions, emf of a Galvanic cell and its measurement: Nernst equation and its applications; Relationship between cell potential and Gibbs' energy change: Dry cell and lead accumulator; Fuel cells.

UNIT 9: CHEMICAL KINETICS

Rate of a chemical reaction, factors affecting the rate of reactions: concentration, temperature, pressure, and catalyst; elementary and complex reactions, order and molecularity of reactions, rate law, rate constant and its units, differential and integral forms of zero and first-order reactions, their characteristics and half-lives, the effect of temperature on the rate of reactions, Arrhenius theory, activation energy and its calculation, collision theory of bimolecular gaseous reactions (no derivation).

UNIT 10: SURFACE CHEMISTRY

Adsorption- Physisorption and chemisorption and their characteristics, factors affecting adsorption of gases on solids - Freundlich and Langmuir adsorption isotherms, adsorption from solutions.

Catalysis - Homogeneous and heterogeneous, activity and selectivity of solid catalysts, enzyme catalysis, and its mechanism.

Colloidal state- distinction among true solutions, colloids, and suspensions, classification of colloids - lyophilic. lyophobic; multi-molecular. macromolecular and associated colloids (micelles), preparation and properties of colloids - Tyndall effect. Brownian movement, electrophoresis, dialysis, coagulation, and flocculation: Emulsions and their characteristics.

INORGANIC CHEMISTRY

UNIT 11: CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES

Modem periodic law and present form of the periodic table, s, p. d and f block elements, periodic trends in properties of elements atomic and ionic radii, ionization enthalpy, electron gain enthalpy, valence, oxidation states, and chemical reactivity.

UNIT 12: GENERAL PRINCIPLES AND PROCESSES OF ISOLATION OF METALS

Modes of occurrence of elements in nature, minerals, ores; Steps involved in the extraction of metals - concentration, reduction (chemical and electrolytic methods), and refining with special reference to the extraction of Al. Cu, Zn, and Fe; Thermodynamic and electrochemical principles involved in the extraction of **metals.**

UNIT 13: HYDROGEN

Position of hydrogen in periodic table, isotopes, preparation, properties and uses of hydrogen; Physical and chemical properties of water and heavy water; Structure, preparation, reactions, and uses of hydrogen peroxide; Classification of hydrides - ionic, covalent, and interstitial; Hydrogen as a fuel.

UNIT 14: S -BLOCK ELEMENTS (ALKALI AND ALKALINE EARTH METALS)

Group -1 and 2 Elements

General introduction, electronic configuration, and general trends in physical and chemical properties of elements, anomalous properties of the first element of each group, diagonal relationships.

Preparation and properties of some important compounds - sodium carbonate and sodium hydroxide and sodium hydrogen carbonate; Industrial uses of lime, limestone. Plaster of Paris and cement: Biological significance of Na, K. Mg, and Ca.

UNIT 15: P- BLOCK ELEMENTS

Group -13 to Group 18 Elements

General Introduction: Electronic configuration and general trends in physical and chemical properties of elements across the periods and down the groups; unique behaviour of the first element in each group.

Groupwise study of the p - block elements Group -13

Preparation, properties, and uses of boron and aluminum; Structure, properties, and uses of borax, boric acid, diborane, boron trifluoride, aluminum chloride, and alums.

Group -14

The tendency for catenation; Structure, properties, and uses of Allotropes and oxides of carbon, silicon tetrachloride, silicates, zeolites, and silicones.

Group -15

Properties and uses of nitrogen and phosphorus; Allotrophic forms of phosphorus; Preparation, properties, structure, and uses of ammonia, nitric acid, phosphine, and phosphorus halides, (PCl_3. PCl_5); Structures of oxides and oxoacids of nitrogen and phosphorus.

Group -16

Preparation, properties, structures, and uses of ozone: Allotropic forms of sulphur; Preparation, properties, structures, and uses of sulphuric acid (including its industrial preparation); Structures of oxoacids of sulphur.

Group-17

Preparation, properties, and uses of hydrochloric acid; Trends in the acidic nature of hydrogen halides; Structures of Interhalogen compounds and oxides and oxoacids of halogens.

Group-18

Occurrence and uses of noble gases; Structures of fluorides and oxides of xenon.

UNIT 16: d - and f- BLOCK ELEMENTS

Transition Elements

General introduction, electronic configuration, occurrence and characteristics, general trends in properties of the first-row transition elements - physical properties, ionization enthalpy, oxidation states, atomic radii, colour, catalytic behaviour, magnetic properties, complex formation, interstitial compounds, alloy formation; Preparation, properties, and uses of $K_2Cr_2O_7$, and $KMnO_4$.

Inner Transition Elements

Lanthanoids - Electronic configuration, oxidation states, and lanthanoid contraction.

Actinoids - Electronic configuration and oxidation states.

UNIT 17: CO-ORDINATION COMPOUNDS

Introduction to coordination compounds. Werner's theory; ligands, coordination number, denticity. chelation; IUPAC nomenclature of mononuclear co-ordination compounds, isomerism; Bonding-Valence bond approach and basic ideas of Crystal field theory, colour and magnetic properties; Importance of co-ordination compounds (in qualitative analysis, extraction of metals and in biological systems).

UNIT 18: ENVIRONMENTAL CHEMISTRY

Environmental pollution - Atmospheric, water, and soil.

Atmospheric pollution - Tropospheric and Stratospheric

Tropospheric pollutants - Gaseous pollutants: Oxides of carbon, nitrogen, and sulphur, hydrocarbons; their sources, harmful effects, and prevention; Greenhouse effect and Global warming: Acid rain;

Particulate pollutants: Smoke, dust, smog, fumes, mist; their sources, harmful effects, and prevention.

Stratospheric pollution- Formation and breakdown of ozone, depletion of the ozone layer - its mechanism and effects.

Water Pollution - Major pollutants such as. pathogens, organic wastes, and chemical pollutants; their harmful effects and prevention.

Soil pollution - Major pollutants such as; Pesticides (insecticides. herbicides and fungicides), their harmful effects, and prevention. Strategies to control environmental pollution.

ORGANIC CHEMISTRY

UNIT 19: PURIFICATION AND CHARACTERISATION OF ORGANIC COMPOUNDS

Purification - Crystallization, sublimation, distillation, differential extraction, and chromatography - principles and their applications.

Qualitative analysis - Detection of nitrogen, sulphur, phosphorus, and halogens.

Quantitative analysis (basic principles only) - Estimation of carbon, hydrogen, nitrogen, halogens, sulphur, phosphorus.

Calculations of empirical formulae and molecular formulae: Numerical problems in organic quantitative analysis,

UNIT 20:SOME BASIC PRINCIPLES OF ORGANIC CHEMISTRY

Tetravalency of carbon: Shapes of simple molecules - hybridization (s and p): Classification of organic compounds based on functional groups: and those containing halogens, oxygen, nitrogen, and sulphur; Homologous series: Isomerism - structural and stereoisomerism.

Nomenclature (Trivial and IUPAC)

Covalent bond fission - Homolytic and heterolytic: free radicals, carbocations, and carbanions; stability of carbocations and free radicals, electrophiles, and nucleophiles.

Electronic displacement in a covalent bond

- Inductive effect, electromeric effect, resonance, and hyperconjugation.

Common types of organic reactions- Substitution, addition, elimination, and rearrangement.

UNITS 21: HYDROCARBONS

Classification, isomerism, IUPAC nomenclature, general methods of preparation, properties, and reactions.

Alkanes - Conformations: Sawhorse and Newman projections (of ethane): Mechanism of halogenation of alkanes.

Alkenes - Geometrical isomerism: Mechanism of electrophilic addition: addition of hydrogen, halogens, water, hydrogen halides (Markownikoffs and peroxide effect): Ozonolysis and polymerization.

Alkynes - Acidic character: Addition of hydrogen, halogens, water, and hydrogen halides: Polymerization.

Aromatic hydrocarbons - Nomenclature, benzene - structure and aromaticity: Mechanism of electrophilic substitution: halogenation, nitration.

Friedel - Craft's alkylation and acylation, directive influence of the functional group in mono-substituted benzene.

UNIT 22: ORGANIC COMPOUNDS CONTAINING HALOGENS

General methods of preparation, properties, and reactions; Nature of C-X bond; Mechanisms of substitution reactions.

Uses; Environmental effects of chloroform, iodoform freons, and DDT.

UNIT 23: ORGANIC COMPOUNDS CONTAINING OXYGEN

General methods of preparation, properties, reactions, and uses.

ALCOHOLS, PHENOLS, AND ETHERS

Alcohols: Identification of primary, secondary, and tertiary alcohols: mechanism of dehydration.

Phenols: Acidic nature, electrophilic substitution reactions: halogenation. nitration and sulphonation. Reimer - Tiemann reaction.

Ethers: Structure.

Aldehyde and Ketones: Nature of carbonyl group; Nucleophilic addition to $>C=O$ group, relative reactivities of aldehydes and ketones; Important reactions such as - Nucleophilic addition reactions (addition of HCN. NH_3, and its derivatives), Grignard reagent; oxidation: reduction (Wolf Kishner and Clemmensen); the acidity of α-hydrogen. aldol condensation, Cannizzaro reaction. Haloform reaction, Chemical tests to distinguish between aldehydes and Ketones.

Carboxylic Acids

Acidic strength and factors affecting it,

UNIT 24: ORGANIC COMPOUNDS CONTAINING NITROGEN

General methods of preparation. Properties, reactions, and uses.

Amines: Nomenclature, classification structure, basic character, and identification of primary, secondary, and tertiary amines and their basic character.

Diazonium Salts: Importance in synthetic organic chemistry.

UNIT 25: POLYMERS

General introduction and classification of polymers, **general** methods of polymerization, - Addition and condensation, copolymerization.

Natural and synthetic, rubber and vulcanization, some important polymers with emphasis on their monomers and uses – polythene, nylon, polyester, and bakelite.

UNIT 26: BIOMOLECULES

General introduction and importance of biomolecules.

CARBOHYDRATES - Classification; aldoses and ketoses: monosaccharides (glucose and fructose) and constituent monosaccharides of oligosaccharides (sucrose, lactose, and maltose).

PROTEINS - Elementary Idea of α-amino acids, peptide bond, polypeptides. Proteins: primary, secondary, tertiary, and quaternary structure (qualitative idea only), denaturation of proteins, enzymes.

VITAMINS – Classification and functions.

NUCLEIC ACIDS – Chemical constitution of DNA and RNA.

Biological functions of nucleic acids.

UNIT 27: CHEMISTRY IN EVERYDAY LIFE

Chemicals in Medicines - Analgesics, tranquilizers, antiseptics, disinfectants, antimicrobials, anti-fertility drugs, antibiotics, antacids. Anti-histamines -their meaning and common examples.

Chemicals in food - Preservatives, artificial sweetening agents - common examples.

Cleansing Agents - Soaps and detergents, cleansing action

UNIT 28: PRINCIPLES RELATED TO PRACTICAL CHEMISTRY

Detection of extra elements (Nitrogen, Sulphur, halogens) in organic compounds; Detection of the following functional groups; hydroxyl (alcoholic and phenolic), carbonyl (aldehyde and ketones) carboxyl, and amino groups in organic compounds.

- The chemistry involved in the preparation of the following:

Inorganic compounds; Mohr's salt, potash alum.

Organic compounds: Acetanilide, p-nitro acetanilide, aniline yellow, iodoform.

- The chemistry involved in the titrimetric exercises – Acids, bases and the use of indicators, oxalic-acid vs $KMnO_4$, Mohr's salt vs $KMnO_4$

- Chemical principles involved in the qualitative salt analysis:

Cations – Pb^{2+}, Cu^{2+}, Al^{3+}, Fe^{3+}, Zn^{2+}, Ni^{2+}, Ca^{2+}, Ba^{2+}, Mg^{2+}, NH_4^+

Anions- CO_3^{2-}, S^{2-}, SO_4^{2-}, $NO3^-$, NO^{2-}, Cl^-, Br^-, I^- (Insoluble salts excluded).

Chemical principles involved in the following experiments:

1. Enthalpy of solution of $CuSO_4$

2. Enthalpy of neutralization of strong acid and strong base.

3. Preparation of lyophilic and lyophobic sols.

4. Kinetic study of the reaction of iodide ions with hydrogen peroxide at room temperature.

Syllabus for Paper 2A (B.Arch)

MATHEMATICS

UNIT 1: SETS, RELATIONS, AND FUNCTIONS:

Sets and their representation: Union, intersection and complement of sets and their algebraic properties; Power set; Relation, Type of relations, equivalence relations, functions; one-one, into and onto functions, the composition of functions.

UNIT 2: COMPLEX NUMBERS AND QUADRATIC EQUATIONS:

Complex numbers as ordered pairs of reals, Representation of complex numbers in the form a + ib and their representation in a plane, Argand diagram, algebra of complex number, modulus and argument (or amplitude) of a complex number, triangle inequality, Quadratic equations in real and complex number system and their solutions Relations between roots and co-efficient, nature of roots, the formation of quadratic equations with given roots.

UNIT 3: MATRICES AND DETERMINANTS:

Matrices, algebra of matrices, type of matrices, determinants, and matrices of order two and three, properties of determinants, evaluation of determinants, area of triangles using determinants, Adjoint, and evaluation of inverse of a square matrix using determinants and elementary transformations, Test of consistency and solution of simultaneous linear equations in two or three variables using determinants and matrices.

UNIT4:PERMUTATIONS AND COMBINATIONS:

The fundamental principle of counting, permutation as an arrangement and combination as section, Meaning of P (n,r) and C (n,r), simple applications.

UNIT 5: MATHEMATICAL INDUCTIONS:

Principle of Mathematical Induction and its simple applications.

UNIT 6: BINOMIAL THEOREM AND ITS SIMPLE APPLICATIONS:

Binomial theorem for a positive integral index, general term and middle term, properties of Binomial coefficients, and simple applications.

UNIT 7: SEQUENCE AND SERIES:

Arithmetic and Geometric progressions, insertion of arithmetic, geometric means between two given numbers, Relation between A.M and G.M sum up to n terms of special series; Sn, Sn2, Sn3. Arithmetico-Geometric progression.

UNIT 8: LIMIT, CONTINUITY, AND DIFFERENTIABILITY:

Real–valued functions, algebra of functions, polynomials, rational, trigonometric, logarithmic, and exponential functions, inverse function. Graphs of simple functions. Limits, continuity, and differentiability. Differentiation of the sum, difference, product, and quotient of two functions. Differentiation of trigonometric, inverse trigonometric, logarithmic, exponential, composite and implicit functions; derivatives of order up to two, Rolle's and Lagrange's Mean value Theorems, Applications of derivatives: Rate of change of quantities, monotonic-Increasing and decreasing functions, Maxima and minima of functions of one variable, tangents and normal.

UNIT 9: INTEGRAL CALCULAS:

Integral as an anti-derivative, Fundamental Integrals involving algebraic, trigonometric,

exponential, and logarithms functions. Integrations by substitution, by parts, and by partial functions. Integration using trigonometric identities.

Evaluation of simple integrals of the type

$$\int \frac{dx}{x^2+a^2} \ , \quad \int \frac{dx}{\sqrt{x^2 \pm a^2}} \ , \int \frac{dx}{a^2-x^2} \ , \int \frac{dx}{\sqrt{a^2-x^2}}$$

$$, \ \int \frac{dx}{ax^2+bx+c} \ , \int \frac{dx}{\sqrt{ax^2+bx+c}} \ , \quad \int \frac{(px+q)dx}{ax^2+bx+c} \ ,$$

$$\int \frac{(px+q)dx}{\sqrt{ax^2+bx+c}} \qquad \int \sqrt{a^2 \pm x^2} \ dx \qquad ,$$
$$\int \sqrt{x^2 - a^2} \ dx$$

Integral as limit of a sum. The fundamental theorem of calculus, properties of definite integrals. Evaluation of definite integrals, determining areas of the regions bounded by simple curves in standard form.

UNIT 10: DIFFRENTIAL EQUATIONS

Ordinary differential equations, their order, and degree, the formation of differential equations, solution of differential equation by the method of separation of variables, solution of a homogeneous and linear differential equation of the type

$$\frac{dy}{dx} + p(x)y = q(x)$$

UNIT11: CO-ORDINATE GEOMETRY

Cartesian system of rectangular coordinates 10 in a plane, distance formula, sections formula, locus, and its equation, translation of axis, slop of a line, parallel and perpendicular lines, intercept of a line on the co-ordinate axes.

Straight line

Various forms of equations of a line, intersection of lines, angles between two lines, conditions for concurrence of three lines, the distance of a point form a line, equations of internal and external by sectors of angles between two lines co-ordinate of the centroid, orthocentre, and circumcentre of a triangle, equation of the family of lines passing through the point of intersection of two lines.

Circle, conic sections

A standard form of equations of a circle, the general form of the equation of a circle, its radius and central, equation of a circle when the endpoints of a diameter are given, points of intersection of a line and a circle with the centre at the origin and condition for a line to be tangent to a circle, equation of the tangent, sections of conics, equations of conic sections (parabola, ellipse, and hyperbola) in standard forms, condition for $Y = mx + c$ to be a tangent and point (s) of tangency.

UNIT12:THREE DIMENSIONAL GEOMETRY

Coordinates of a point in space, the distance between two points, section formula, directions ratios, direction cosines, the angle between two intersecting lines. Skew lines, the shortest distance between them, and its equation. Equations of a line and a plane in different forms, the intersection of a line and a plane, coplanar lines.

UNIT 13: VECTOR ALGEBRA

Vectors and scalars, the addition of vectors, components of a vector in two dimensions and three-dimensional space, scalar and vector products, scalar and vector triple product.

UNIT 14: STATISTICS AND PROBABILITY

Measures of discretion; calculation of mean, median, mode of grouped and ungrouped data calculation of standard deviation, variance and mean deviation for grouped and ungrouped data.

Probability: Probability of an event, addition and multiplication theorems of probability, Baye's theorem, probability distribution of a random variate, Bernoulli trials, and binomial distribution.

UNIT 15: TRIGONOMETRY

Trigonometrical identities and equations, trigonometrical functions, inverse trigonometrical functions, and their properties, heights, and distance.

UNIT 16: MATHEMATICAL REASONING

Statement logical operations and, or, implies, implied by, if and only if, understanding of tautology, contradiction, converse, and contrapositive.

Part –II APTITUDE

UNIT - 1   Awareness of persons. Buildings, Materials.

Objects, Texture related to Architecture and Build-environmentVisusalising three-dimensional objects from two-dimensional drawings. Visualizing. Different sides of three-dimensional objects. Analytical Reasoning Mental Ability (Visual. Numerical and Verbal)

UNIT – 2 Three dimensional- perception: Understanding and appreciation of scale and proportions of objects, building forms and elements, colour texture harmony and contrast Design and drawing of geometrical or abstract shapes and patterns in pencil. Transformation of forms both 2D and 3D union, subtraction rotation, development of surfaces and volumes, Generation of plans, elevations, and 3D views of objects, Creating two-dimensional and three-dimensional compositions using given shapes and forms.

Part – III DRAWING

Sketching of scenes and activities from memory of urbanscape (public space, market, festivals, street scenes, monuments, recreational spaces, etc). landscape (riverfronts. Jungle. Gardens, trees. Plants, etc.) and rural life.

To be conducted in a Drawing sheet.

Note: Candidates are advised to bring pencils. Own geometry box set, crasets and colour pencils, and crayons for the Drawing Test.

Syllabus for Paper 2B (B.Planning)

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PLANNING

UNIT-1 GENERAL AWARENESS

General knowledge questions and knowledge about prominent cities, development issues, government programs, etc.

UNIT-2 SOCIAL SCIENCES

The idea of nationalism, nationalism in India, pre-modern world, 19th-century global economy, colonialism, and colonial cities, industrialization, resources, and development, types of resources, agriculture, water, mineral resources, industries, national economy; Human Settlements

Power-sharing, federalism, political parties, democracy, the constitution of India

Economic development- economic sectors, globalization, the concept of development, poverty; Population structure, social exclusion, and inequality, urbanization, rural development, colonial cities,

UNIT-3 THINKING SKILLS

Comprehension (unseen passage); map reading skills, scale, distance, direction, area, etc.; critical reasoning; understanding of charts, graphs, and tables; basic concepts of statistics and quantitative reasoning.

Replica of JEE (Main)-2022 Examination

Department of Higher Education
उच्चतर शिक्षा विभाग
Ministry of Education
शिक्षा मंत्रालय
Government of India
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JEE(Main) - 2022

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🏠 Home

| Registration | Application Form | Fee Payment |

Instructions and Procedure for online submission of Application Form

Download Information Bulletin 📥   View Examination City 👁

1. Please download and read carefully the Information Bulletin and Instructions/ procedure given therein and below, before you start filling the Application Form online.
2. You can apply for JEE (Main) - 2022 'ON-LINE' only through the official website of JEE(Main) - **(https://jeemain.nta.nic.in).**
3. Please ensure your eligibility as per the criteria laid down for JEE(Main), JEE (Advanced), and participating State Institutions (as applicable).
4. Examination Fee : The Fee for JEE(Main) - 2022 per Session is as follows :

Course(s) / Paper(s)	Category/ PwD	Gender	Fee Per Session in India (In Rs.)	Fee Per Session Outside India (In Rs.)
Paper 1: B.E./B. Tech or Paper 2A: B. Arch or Paper 2B: B.Planning	General/Gen-EWS/ OBC(NCL)	Male	650	3000
		Female/ Transgender	325	1500
	SC/ST/PwD	Male	325	1500
		Female/ Transgender	325	1500
Paper 1: B.E./B. Tech & Paper 2A: B. Arch or Paper 1: B.E./B. Tech & Paper 2B: B. Planning or Paper 1: B.E./B.Tech, Paper 2A: B. Arch & Paper 2B: B.Planning or Paper 2A: B. Arch & Paper 2B: B.Planning	General/Gen-EWS/OBC(NCL)	Male	1300	6000
		Female/ Transgender	650	3000
	SC/ST/PwD	Male	650	3000
		Female/ Transgender	650	3000

Processing charges and Goods & Service Taxes (GST) are to be paid by the candidate, as applicable.

"Candidates are requested to fill in the Application Form very carefully. No corrections will be permitted once the Application Form is submitted."

[Note : (i).In the first session, only **Session 1** will be visible and candidates can opt for that. In the next session, **Session 2** will be visible, and the candidates can opt for that Session. The application window will be re-opened immediately after the conduct of Session 1. Examination for Session 2 will be the last Examination for the JEE (Main) - 2022.

A candidate can apply for Session 1 and pay the exam fee accordingly in the given duration. If a candidate wishes to apply for Session 2, he/she has to apply again when the window will be re-opened after the conduct of Session 1 and pay the Examination Fee during that period. Multiple Application Forms submitted by a candidate for the same Session(s) will not be accepted at any cost.

(ii). The fee can be submitted only online through Net Banking, Credit Card, Debit Card, UPI, or Paytm Services. Processing charges and GST as applicable are chargeable to the candidate (in addition to the examination fee) by the concerned Bank/Payment Gateway integrator. For details/ procedure, **please see Appendix-II of the Information Bulletin.**

5. Application Procedure: Steps to be followed to apply online.

Candidates must read carefully the Instructions (including how to fill up the Application Form online) given in the Information Bulletin available on the NTA Website. Candidates not complying with the Instructions shall be summarily disqualified.

Step 1: Registration Form: Register for the Online Application Form and note down the system-generated Application Number. The candidate should supply the required details while filling the Online Application Form and is also required to create PASSWORD and choose Security Question and enter his/her Answer. After successful submission of the personal details, an Application number will be generated and it will be used to complete the remaining Steps of the Application Form and will also be required for all future reference/correspondence. This application number will also be used/referred for both Sessions of JEE (Main) - 2022. For subsequent logins, the candidate will be able to login directly with the respective system generated **Application Number** and created **Password**

Step 2: Application Form : The Candidates can log in with the system-generated Application Number and pre-created Password for completing the Application Form including filling up of personal details, applying for the Paper, choosing the Examination Cities, providing the details of Educational Qualifications, and uploading the images and documents (if any).

Upload Scanned Images of Candidate's Photograph, Signature, Category Certificate(wherever applicable) and PwD Certificate (wherever applicable) :
   i. **The recent photograph should be either in colour or black & white with 80% face (without mask) visible including ears against a white background.**
   ii. Scanned photograph and signature should be in **JPG** format (clearly legible).
   iii. The size of the scanned photograph should be between **10 kb to 200 kb** (clearly legible).
   iv. The size of the scanned signature should be between **4 kb to 30 kb** (clearly legible)
   v. Size of the scanned copy of Category certificate between **10 kb to 300 kb** (clearly legible)
   vi. Size of the scanned copy of PwD certificate between **10 kb to 300 kb** (clearly legible)

[Note: The Candidate has to upload only his/ her own photograph, signature, and certificate(s) as mentioned above (and not of anybody else) in a correct/proper manner, **as the facility for correction will not be given in the future.** In case, it is found at any time in the future that the Candidate has used/uploaded the photograph, signature, and certificate(s) of someone else in his/her Application Form/Admit Card, or he/she has tempered his/her Admit Card/Result/Scorecard, these acts of the candidate shall be treated as Unfair Means (UFM) Practices and he/she shall be proceeded with the actions as contemplated under the provisions of the Information Bulletin relating to Unfair Means Practices.

Please check your photograph and signature before submission of the Application Form. In case the photograph or signature is blurred or not visible to identify the identity of the candidate then, the application will be rejected and no option for correction or revision will be permitted.

Step 3: Fee Payment: After completing Step 1 and Step 2, the candidates have to pay the requisite examination fee. The fee can be submitted only online through Net Banking, Credit Card, Debit Card, UPI, or Paytm Services. Processing charges and GST as applicable are chargeable to the candidate (in addition to the examination fee) by the concerned Bank/Payment Gateway integrator.

The Confirmation Page of the online Application Form will be generated only after successful payment by the Candidate. In case the Confirmation Page is not generated after payment of fee, then the candidate may have to approach the concerned Bank/Payment Gateway (in the helpline number and e-mail given in the Information Bulletin) for ensuring the successful payment or for obtaining the refund of duplicate / multiple payments].

6.**Important Instruction about PASSWORD**
    i. During online form filling, the candidate will be required to choose PASSWORD and Security Question and its Answer. The candidate is advised to record/remember their password for all future logins.
    ii. For subsequent logins, the candidate will be able to login directly with their respective system-generated Application Number and the chosen Password.
    iii. The candidate is advised not to disclose or share their password with anybody. Neither NTA nor NIC will be responsible for the violation or misuse of the password of a candidate.
    iv. Candidates can change his/her passwords after login if desired.
    v. Candidates should remember to log out at the end of their session so that the particulars of the candidate cannot be tampered with or modified by unauthorized persons.

  The Password must be as per the following Password policy.
    i. Password must be **8 to 13 characters long.**
    ii. Password must have at least **one Upper** case alphabet.
    iii. Password must have at least **one Lower** case alphabet.
    iv. Password must have at least **one numeric value.**
    v. Password must have at least **one special character eg.!@#$%^&*-.**

7.**How to reset your Password :** The following options are available to reset Password
    i. Using Security Question and its Answer you have chosen during Form filling.
    ii. Using a verification code sent via text message (SMS) to your Registered Mobile No.
    iii. Using a reset link sent via Email to your Registered Email address.

8.The Application Number printed on the computer-generated Confirmation Page must be mentioned in all such correspondences. It is therefore essential to note down the application number printed on the Confirmation Page.

☐ **I have downloaded the Information Bulletin of JEE (Main) - 2022, read and understood all the Instructions therein as well as those mentioned above, and will fill up the online Application Form for the JEE (Main) – 2022 accordingly.**

Click here to Proceed

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JEE(Main) - 2022

राष्ट्रीय परीक्षा एजेंसी
National Testing Agency
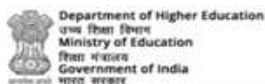
⌂ Home

Personal Details

Candidate's Name	A
Father's Name	B
Mother's Name	C
Candidate Date of Birth	02 / January (01) / 2000
Gender	Male
Identity Type	School ID Card
Enter School ID Card	12547ss

Present Address

Premises No/Name	ABC
Sub-Locality(Optional)	ABCD
Locality	ABCDE
Country	India
State	DELHI
District	CENTRAL DELHI
Pin Code	110044
Email Address	
Confirm Email Address	
Mobile Number	91
Confirm Mobile Number	91
Alternate Contact No. (Optional)	

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JEE(Main) - 2022

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National Testing Agency

Home   Change Password   Logout

Name: A   Application No: 220310000125

Application Form Steps

- Contact Details
- Personal Details
- Aadhaar Details
- Exam and Center Details
- Qualification Details
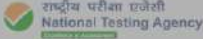- Additional Details
- Document Upload
- Final Submit

Education Details

10th or equivalent Qualification Details

Field	Value
Pass Status	Passed
Year of Passing/Appearing	2016
Qualifying Exam	10th or Equivalent
Place of Schooling	Rural
Type of School/College	Jawahar Navodaya Vidyalaya(JNVs)
Qualifying Examination State	DELHI
Qualifying Examination District	EAST DELHI
School Board	ANDHRA PRADESH BOARD OF SECONDARY EDUCATION
Result Mode	Percentage
Total Marks	500
Obtained Marks	400
Marks(%)	80.00
Roll Number	4578945
School/College Name & Address	SSSD
School/College Pincode	110044

12th or equivalent Qualification Details

Field	Value
Pass Status	Appearing
Year of Passing/Appearing	2022
Qualifying Exam	A Diploma recognized by AICTE or a state board of technical education of at least 3 year duration. Only for A
Place of Schooling	Rural
Type of School/College	Jawahar Navodaya Vidyalaya(JNVs)
Qualifying Examination State	DELHI
Qualifying Examination District	CENTRAL DELHI
School Board	ASSAM HR SEC EDUCATION COUNCIL
Result Mode	Select
Roll Number	5644554
School/College Name & Address	SSDDVV
School/College Pincode	110044
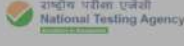
Security Pin

Enter security pin (case sensitive)   NTA022

Security Pin   **7HL147**

Save & Next

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National Testing Agency

Home | Change Password | Register Query | Logout

Name: A   Application No: 220310000125

System just sent a One Time Password (OTP) to your registered Email Id

| Registred Email Id | RAV*****@NTA.AC.IN |
| Enter One Time Password (OTP) | |

Verify

Note: Didn't get the OTP on Email? Sometimes it can take up to 15 minutes. If it's been longer than that, Click **RESEND CODE** to resend an One Time Password (OTP) to your registered Email Id.

Click here to Go Home

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JEE(Main) - 2022

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Home | Change Password | Register Query | Logout

Name: A   Application No: 220310000125

Mode of Payment

Activity : Examination Fee Payment

Select Mode of Payment

◉ Online Payment

Proceed for payment

Note: Examination Fee

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NIC एनआईसी
National Informatics Centre

JEE(Main)
2022

User Details

Candidate Name	C NAME	Fee Amount	1/-
Application Number	220310080064	Customer Id	22031000006401901
Date of Birth	15-01-1991		

Examination Fee Payment

Select Payment Provider :

- ○ SBI MOPS (Debit Card/Credit Card/UPI/Net Banking of any bank)
- ○ Canara Bank Payment Gateway (Debit Card/Credit Card/UPI/Net Banking of any bank)
- ○ ICICI Bank Payment Gateway (Debit Card/Credit Card/UPI/Net Banking of any bank)
- ○ HDFC Bank Payment Gateway (Debit Card/Credit Card/UPI/Net Banking of any bank)
- ○ Paytm Payment Gateway (Debit Card/UPI/Net Banking/Credit Card/Paytm Wallet)

PROCEED FOR PAYMENT

Click here to Cancel this Transaction.

Net Banking

SBI Net Banking / yono	Other Banks
Bank Charges: 0.0	Bank Charges: 5.9
CLICK HERE	CLICK HERE

Card Payments

⚠ Please select appropriate card type to avoid failures (C-Credit Card Options/D for Debit Card)

State Bank Debit Cards	Other Bank Debit Cards	Credit Cards
Bank Charges: 0.0	Bank Charges: 0.0	Bank Charges: 12.98
CLICK HERE	CLICK HERE	CLICK HERE

Other Payments Modes

UPI
Bank Charges: 0.0
CLICK HERE

CANCEL

SBI
SBI ONLINE

Your site visit : 17-Jan-2022 [01:55 PM IST]

Remittance Information Form	
SBI Reference number	CPABINHJQ5
Merchant Reference No	22031000006401901
Amount to be Remitted	Rs 1/-
Transaction Status	Collect Request Initiated Successfully
QR Code	

Please note that this is only a remittance information form not an acknowledgement of remittance

This Transaction request will expire after 3 minutes. Please approve the transaction in your respective UPI App within this period.

02:45 mins

Cancel Transaction

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SBI
SBI ONLINE

Your site visit : 17-Jan-2022 [01:56 PM IST]

Remittance Information Form	
SBI Reference number	CPABINHJQ5
Merchant Reference No	22031000006401901
Amount to be Remitted	Rs 1/-
Transaction Status	Success

Please note that this is only a remittance information form not an acknowledgement of remittance

Click here to return to the National Testing Agency JEE Main 2021 site. Else, you will be automatically redirected to the National Testing Agency JEE Main 2021 site in 60 seconds.

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🏠 Home | Change Password | Register Query | Logout

Name: C NAME   Application No: 220310000064

Activities
- ⊘ Registration Form
- ⊘ View Application Form
- ⊘ View Payment Details

Download Confirmation Page
- Download Confirmation Page

Verify Mobile No. & Email Id
- ⊘ Mobile No.- Verified
- ⊘ Email Id - Verified

Current Status

Registration Form	Completed
Application Form	Completed
Fee Payment	Completed

You have completed all the steps of online Application Form.
Now download the confirmation page.
Application Number : 220310000064

Download Confirmation Page

Ministry of Education
Government of India

Joint Entrance Examination (Main) – 2022
Confirmation Page

राष्ट्रीय परीक्षा एजेंसी
National Testing Agency

Application No.	220310000002

Personal Details

Aadhaar:	Not Available	Aadhaar Number	
Candidate's Name	HARSHIL TUSHAR	Candidate Date of Birth	01-01-2008
Mother's Name	RACHNA	Gender	Male
Father's Name	SUNIL KUMAR	Nationality	Indian
Category	OBC- NCL (Central List)		
If your are a PwD candidate, do you have benchmark disability (40% or more / "Severe" where percentage is not defined)?	No		
Type of Disability			
Do you need scribe (as the criteria given in the Information Bulletin)?			
Percentage of Disability			
State/ UT from wher 12th/ Equivalent Passed/ Appearing	BIHAR		
Place of Residence	Urban		
Annual Family Income			
Are you Diabetic?	No		
Mode of preparation:	Self Study		
Medium of Schooling in Qualifying Examination:	Hindi		

Apply For

Apply For	B.E./B.Tech. Only
Question Paper Medium	Hindi
Session(s) of Exam Apply For	January
Exam State/ City-1st choice	BIHAR - ARRAH
Exam State/ City-2nd choice	BIHAR - AURANGABAD(BIHAR)
Exam State/ City-3rd choice	BIHAR - BEGUSARAI
Exam State/ City-4th choice	BIHAR - BHAGALPUR

Additional Details

Are You Twin	Yes
Name of other Brother/Sister as per Class X Certificate	Arnav
Roll Number of Class 10th or its equivalent of the Twin	5285255522

Present Address

Premises No/Name, Sub-Locality,Locality	FDDD, KHOSLA APPARTMENT
District, State, Country, Pin Code	BANKA, VVVV, BIHAR, India, 345566
Email Address	sun***@gmail.com
Mobile Number	991****827
Alternate Contact No.(Optional)	099****0827

Permanent Address State

Permanent Address State	BIHAR

Images Uploaded by Candidate

Photo	Signature
PHOTO NOT AVAILABLE	Signature

Fee Payment Details

Activity	Application No	Reference No	Transaction Date	Amount	Customer ID	Payment Mode
Application fee	220310000002	58822ijjkkl55	2021-12-28	1.0	220310000002	EPG

Verified
by DigiLocker

Digitally signed on
01/03/2022 02:24:09 PM

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National Testing Agency
Excellence in Assessment

(An autonoumous organization under the department of Higher Education,
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