PILLAI COLLEGE OF ENGINEERING, NEW PANVEL
(Autonomous) (Accredited 'A+' by NAAC)
END SEMESTER(Supplementary) EXAMINATION SECONDHAL
BRANCH: ELECTRONICS AND COMPUTER SCIENCE

Subject: -System Software & Operating Systems	**Time: 02.00 Hours**
Max. Marks: 60	**Date: 23/07/2022**

Q.1.	
Ans: a)	Draw Process State diagram – 2marks Explain Process State diagram -3marks
Ans: b)	Comparison between Compiler and Interpreter- 5marks
Ans: c)	Explain functions of macro processor–5marks
Ans: d)	Define OS-2 marks Explain functions of OS-3marks
Q.2.	
Ans:a)	Forward Reference Problem- 2marks Explain solution to resolve it(any one) – 3marks
Ans: b)	Explain types of Intermediate Code representation with examples: - 5marks
Ans: c)	Using FIFO - 2marks Using LRU - 3marks
Ans: d)	Conversion of logical address to physical address using paging hardware-5marks
Q.3.	
Ans: a)	Code Optimization- 4marks Explain various techniques – 6marks
Ans: b)	Using FCFS algorithm -3 marks Using SSTF algorithm -3 marks Using C-SCAN algorithm -4 marks
Q.4.	

Ans: a)	Draw Phases of Compiler: - 4 marks
	Explain various phases of complier – 6 marks
Ans: b)	Using First Come First Serve: -3marks Using SRTF :- 3marks Using Round Robin (Quantum=3) scheduling algorithm: -4marks