

Exam.	B. E. (Computer Engineering)		
Level	BE	Full Marks	80
Programme	BCT	Pass Marks	32
Year / Part	III / II	Time	3 hrs.

Subject: -Operating System (CT 656)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt All questions.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.

1. What is the role of system call in an operating system? Write down the major differences between following types of operating system. [2+8]
- a) Batch system
 - b) Interactive system
 - c) Real time system
 - d) Time sharing system

2. State 5- State process model. From the given following information: [2+8]

Process	Burst Time	priority
P ₁	10	3
P ₂	1	1
P ₃	2	3
P ₄	1	4
P ₅	2	2

Assume the processes arrived in the order P₁, P₂, P₃, P₄ and P₅ all time 0, priority 1 as highest and 4 as lowest.

- a) Draw the gantt chart
 - b) Calculate average waiting time and average turnaround time for the following scheduling algorithm.
 - (i) Round robin (quantum= 1)
 - (ii) priority preemptive
 - (iii) preemptive SJF
 - (iv) FCFS
3. What is critical section problem? Why must the executing the critical section be mutually exclusive? Describe how race condition occurs in producer- consumer problem and use semaphore to solve it. [2+2+6]
4. Define page fault and demand paging. Consider logical address spaces of eight pages of 1024 words, each mapped onto a physical memory of 32 frames then, [4+6]
- a) How many bits are in logical address and physical address?
 - b) How paging will be done?
5. What is the role of file system? How can files be implemented? List any three of them with advantages and disadvantages of each. [2+6]

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