

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 <sub>1</sub>	10	3
P <sub>2</sub>	1	1
P <sub>3</sub>	2	3
P <sub>4</sub>	1	4
P <sub>5</sub>	2	2

Assume the processes arrived in the order P<sub>1</sub>, P<sub>2</sub>, P<sub>3</sub>, P<sub>4</sub> and P<sub>5</sub> 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]

# Question Out Paper J S C

**KJ Lindholm-Leary**



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