

Sixth Semester B.E. Degree Examination, Dec.2019/Jan.2020
Operating Systems

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1. a. What is operating system? Explain multiprogramming and time sharing systems. (06 Marks)
- b. Explain dual mode operating in operating system with a neat block diagram. (05 Marks)
- c. What are system calls? Briefly point out its types. (05 Marks)

OR

2. a. Explain process states with state transition diagram. Also explain PCB with a neat diagram. (06 Marks)
- b. What is interprocess communication? Explain its types. (05 Marks)
- c. With a neat diagram, explain the concept of virtual machines. (05 Marks)

Module-2

3. a. For the process listed below, draw Gantt charts using pre-emptive and non-preemptive priority scheduling algorithm. A larger priority number has a higher priority. Calculate Average Weighing Time and Average turnaround time.

Jobs	Arrival Time	Burst Time	Priority
J ₁	0	6	4
J ₂	3	5	2
J ₃	3	3	6
J ₄	5	5	3

- b. Is CPU scheduling necessary? Discuss the five different scheduling criterias used in the computing scheduling mechanism. (06 Marks)
- c. Explain multithreading models. (05 Marks)

OR

4. a. Define semaphores. Explain its usage and implementation. (06 Marks)
- b. Explain Reader-Write problem with semaphore in detail. (05 Marks)
- c. What are monitors? Explain dining Philospher's solution using monitor. (05 Marks)

Module-3

5. a. System consists of five jobs (J₁, J₂, J₃, J₄, J₅) and three resources (R₁, R₂, R₃). Resource type R₁ has 10 instances, resource type R₂ has 5 instances and R₃ has 7 instances. The following snapshot of the system has been taken.

Jobs	Allocation			Maximum			Available		
	R ₁	R ₂	R ₃	R ₁	R ₂	R ₃	R ₁	R ₂	R ₃
J ₁	0	1	0	7	5	3	3	3	2
J ₂	2	0	0	3	2	2			
J ₃	3	0	2	9	0	2			
J ₄	2	1	1	2	2	2			
J ₅	0	0	2	4	3	3			

Find need matrix and calculate the safe sequence by using Banker's algorithm. Mention the above system is safe or not safe. (06 Marks)

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Lei Shi

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