

OCT-2015

BCA SEM – III Examination
Paper No. – 306
Operating System

Time : 3 Hr.

Max. Marks : 70

Q:1.(A) What is Operating System? Explain different Function of OS. (7)

Q:1.(B) Define batch processing system? Explain jobs and processes file system. (7)

OR

Q:1.(A) Write a short note on Multi-user System and Distributed System (7)

Q:1.(B) What is virtual machine? Explain Client server in detail. (7)

Q:2.(A) What do you mean by Memory Management? Explain Paging and Segmentation. (7)

Q:2.(B) What is Virtual memory? Explain it (7)

OR

Q:2.(A) Explain Page Replacement Algorithms. (7)

Q:2.(B) What is memory? Explain different types of memory. (7)

Q:3.(A) Explain Interrupt driven I/O cycle in detail. (7)

Q:3.(B) What do you mean process scheduling? Explain any two in detail. (7)

OR

Q:3.(A) For the following processes count the Average turnaround time and Average waiting time using SJF (Preemptive), Priority (preemptive) and Round robin scheduling algorithm. Time slice for Round robin algorithm is 4 milliseconds. (7)

Process	Arrival Time	Burst Time	Priority
A	02	08	1
B	00	09	2
C	04	07	3
D	06	04	1

Q:3.(B) Write a note : Virtual Processor (7)

Q:4.(A) What is DMA? Explain DMA controlled I/O. (7)

Q:4.(B) Write a note on Disk Scheduling in OS (7)

OR

Q:4.(A) What is file? Explain File systems-Partitions in OS. (7)

Q:4.(B) Explain I/O Drivers Management. (7)

Q:5.(A) Draw an Architecture of Distributed OS and explain it. (7)

Q:5.(B) Write a short note on Distributed shared memory. (7)