1204E20   Candidate's Seat No :_____

B.Sc. Semester-6 Examination
CC 310
Computer Science
Time : 2-30 Hours]   April-2023   [Max. Marks : 70

Q:1 Write the Following.

(i)What is operating System?Explain evolution and History of OS.   (7)
(ii)Explain types of Operating System.   (7)
OR
(i) Explain elements of an operating system.   (7)
(ii)Explain perspective of single user and multiuser operating system.   (7)

Q:2 Write the Following.

(i)What is memory management?Explain techniques of memory management.   (7)
(ii)Explain contiguous memory allocation.   (7)
OR
(i)What is paging?Explain with proper diagrammatic representation.   (7)
(ii)What is segmentation?Explain with proper diagrammatic representation.   (7)

Q:3 Write the Following.

(i)What is Process?Explain process state diagram.   (7)
(ii)Explain semaphores in detail.   (7)
OR
(i)What is scheduling?Explain types of scheduler in detail.   (7)
(ii) Explain SRTN algorithm with proper example.   (7)

Q:4 Write the Following.

(i) What is device management?Explain it's function.   (7)
(ii) Explain device management characteristics.   (7)
OR
(i) Explain disk scheduling algorithm.   (7)
(ii) Explain disk space management.   (7)

Q:5 Attempt any seven out of twelve.   (14)

1.What is the kernel?
2.What do you mean by system calls?
3.What is system bus?
4.List out the strategies to select partitions.Explain any two of them.
5.What is starvation?
6.What is demand paging?
7.What is deadlock?
8.What is mutual exclusion?
9.What is IPC?
10.List out disk scheduling algorithm?
11.What is meant by context switch?
12.What is process control block?

— X—