SE – 432

II Semester B.Voc. Degree Examination, September 2020
(CBCS (Repeaters) Scheme) (2016-17 and Onwards)
INFORMATION TECHNOLOGY
203 : Operating System

Time : 3 Hours Max. Marks : 70

***Instruction** : Answer **all** Sections.*

SECTION – A

Answer **any 10** questions. **(10×2=20)**

1. What is paging ?
2. Define RAID technology.
3. What is disk scheduling ?
4. What is deadlock ?
5. What is race condition ?
6. Define segmentation.
7. What is critical section ?
8. What is a Kernel ?
9. Define multithreading with an example.
10. What is interprocess communication ?
11. Differentiate between logical and physical address.
12. What is fragmentation and what are its types ?

SECTION – B

Answer **any 5** questions. **(5×10=50)**

13. a) Explain deadlock prevention and avoidance.
    b) How to recover from deadlock ? **(5+5)**

14. a) What is virtual memory ?
    b) Explain demand paging. **(5+5)**

15. a) Explain critical section problem.
    b) Explain FCFS and RR scheduling algorithms. **(5+5)**

16. a) Explain memory allocation methods.
    b) Explain magnetic disk storage with a neat diagram. **(5+5)**

17. a) What is a process ? Briefly explain its states.
    b) Explain process synchronization in detail. **(5+5)**

18. a) Explain any 2 disk scheduling algorithms.
    b) Explain multithreading in detail. **(5+5)**

19. a) Describe interprocess communication.
    b) Explain dining philosopher's problem. **(5+5)**

20. a) Explain parallel and distributed systems.
    b) Explain SCAN and C-SCAN disk scheduling. **(5+5)**