Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 18

B.Tech (CSE)   (Sem.–4)
OPERATING SYSTEM
Subject Code : CS-202
Paper ID : [A0458]

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1. Write at least two functions of Operating System.

2. Explain in brief about the term caching.

3. List various CPU scheduling criteria.

4. Differentiate between Internal and external fragmentation.

5. Write at least two advantages of virtual memory concept.

6. Explain in brief about polling in reference to I/O systems.

7. Differentiate between Seek time and rotational latency.

8. List various reasons for process migration in reference to distributed operating systems.

9. Differentiate between LINUX and UNIX operating system.

10. Explain in brief the term protection.

SECTION-B

11. Write a detailed note on Layered approach in reference to operating system structure.

12. Explain in detail about the concept of shared segments.

13. Write a brief note on Kernel I/O subsystem.

14. Write a detailed note on distributed operating systems

15. Explain various goals of protection in brief.

SECTION-C

16. Explain the following CPU scheduling Algorithms in detail

   a) Priority scheduling   (4)

   b) Multilevel Queue scheduling   (3)

   c) Multilevel feedback Queue Scheduling   (3)

17. Write a detailed note on following terms in reference to secondary storage structure

   a) Disk Management   (5)

   b) Swap space management   (5)

18. Write a detailed note on LINUX operating system.   (10)