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

Total No. of Questions : 09

B.Tech.(ECE/ETE) (2011 Onwards)   (Sem.–6)
OPERATING SYSTEMS
Subject Code : BTCS-401
Paper ID : [A2314]

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 briefly :**

    1. Thrashing.

    2. Command interpreter.

    3. PCB.

    4. I/O traffic.

    5. Cache coherence

    6. File control block.

    7. Virtual file systems.

    8. Scalability.

    9. Dynamic loading.

    10. Mutual exclusion.

SECTCON-B

2. What is meant by transparencies? What are the challenges that are faced by their implementation?

3. Explain the process of allocation in file systems.

4. What is meant by page replacement? Explain in detail optimal page replacement.

5. Explain operating system structures.

6. Explain the steps involved in handling page fault.

SECTION-C

7. Explain 4 state MESI protocol.

8. Compare UNIX / LINUX / Windows based operating system.

9. Compare and contrast multiprocessor and distributed operating systems.