Roll No. Total No. of Pages: 02

Total No. of Questions: 09

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

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY.
- Attempt any FOUR questions from SECTION-B.
- 3. Attempt any TWO questions from SECTION-C.

SECTION-A $(10 \times 2 = 20 \text{ Marks})$

- I. Explain the following
 - (a) Hash Table
 - (b) Semaphores
 - (c) Judgement field in the page table
 - (d) Fragmentation of memory
 - (e) Round Robin scheduling
 - (f) SOLARIS OS
 - (g) SCO-UNIX
 - (h) Security features in Linux
 - (i) Open Source Software
 - (j) Boot Process of a PC

SECTION-B $(4 \times 5 = 20 \text{ Marks})$

- 2. Explain demand paging with proper diagram and example.
- 3. What you understand by process scheduling? Write a note.
- 4. What is the overall structure of an OS? Draw a neat architecture and explain.

<u>Download</u> all Notes and papers from StudentSuvidha.com

- 5. Write a note on device management. How various devices work in synchronization to each other?
- 6. What are various kinds of interrupts? How we handle them?

SECTION-C $(2 \times 10 = 20 \text{ Marks})$

- 7. Write a note on the following:
 - a) Interprocess communication
 - b) Preemptive and Non Preemptive scheduling
 - c) Physical and logical address space
 - d) Internal and external fragmentation
- 8. Write a detailed note on multiprocessor and distributed systems. What are their advantages and how these are implemented?
- 9. How the files are stored on the secondary memory storage? Discuss in context of DOS and UNIX partitioning and file management schemes.