

Total No. of Questions : 09

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

Time : 3 Hrs.

Max. Marks : 60

#### **INSTRUCTION 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 has to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

#### **SECTION-A**

- l. Write Briefly :
  - (a) What is the main advantage of multiprogramming?
  - (b) What is the difference between a hard real time system and soft real time system?
  - (c) What is the difference between short term scheduler and long term scheduler?
  - (d) What is the disadvantage of FCFS scheduling algorithm?
  - (e) Define the term semaphore.
  - (f) Describe the *concept* of swapping.
  - (g) Compare thread and process.
  - (h) Why are page size always power of 2?
  - (i) What do you mean by memory reference string?

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# SECTION B

- 2. Explain the goals of protection system.
- 3. What are distributed systems ? Explain their advantages and disadvantages.
- 4. Explain the features of Linux system.
- 5. What is process control block? Explain the contents in process control block.
- 6. List the advantages and disadvantages of contiguous memory allocation.

### SECTION C

- 7. What is deadlock? Explain different conditions required to occur a deadlock. How deadlock prevention is possible?
- 8. What is thrashing? Describe the cause of thrashing. How thrashing can be prevented?
- 9. Explain the different security techniques with their advantages and disadvantages.

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