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Roll No: Total No. of Questions : 09]

[Total No. of Pages :02

Maximum Marks : 60

 $(10 \times 2 = 20)$

Paper ID [A0458]

(Please fill this Paper ID in OMR Sheet)

B.Tech. (Sem. - 4th) OPERATING SYSTEM (CS - 202)

Time : 03 Hours

Instruction to Candidates:

- 1) Section A is **Compulsory**.
- 2) Attempt any Four questions from Section B.
- 3) Attempt any Two questions from Section C.

Section - A

Q1)

- a) What is SPOOLING?
- b) What is Resource Allocation Graph?
- c) What is Process Control Block?
- d) What are System Calls?
- e) Define Compaction?
- f) Why is protection of file required?
- g) When the system is in safe state?
- h) Name any four Multi user operating systems?
- i) Define Trojan horse and virus?
- j) Why pages are sizes always powers of 2?

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Section - B

$(4 \times 5 = 20)$

- *Q2)* Explain various strategies to deal with deadlocks? How deadlock is detected and recovered.
- *Q3)* What is fragmentation? Explain the difference between external and internal fragmentation?
- Q4) Compare various memory management techniques.
- **Q5)** Explain the architecture of LINUX Operating System.
- Q6) Discuss various methods of file allocation with advantages and disadvantages?

Section - C

 $(2 \times 10 = 20)$

- *Q7*) What do you mean by scheduling? Explain with example the Shortest Job First (SJF) scheduling and Round robin scheduling algorithm?
- Q8) Explain Segmentation with help of an example.
- **Q9)** Explain the difference between Distributed and Multiprocessor operating systems.

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