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Total No. of Printed Pages: [01]

Total No. of Questions: [11]

MCA (Semester –2nd)
OPERATING SYSTEM
Subject Code: MCAPS1202
Paper ID: [20270107]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It carries 16 marks. It consists of 4 questions of 4 marks each.
2. Section B consist of 4 questions of 8 marks each. The student has to attempt any 3 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(4 marks each)

- Q1. What is the role of operating system as resource manager?
- Q2. Define the purpose of PCB.
- Q3. List various memory management policies.
- Q4. Explain secondary storage structure.

Section – B

(8 marks each)

- Q5. Explain various function of kernel?
- Q6. What are different deadlock prevention techniques?
- Q7. Explain memory segmentation technique.
- Q8. Explain layered architecture of OS.

Section – C

(10 marks each)

- Q9. Explain file system architecture in detail.
- Q10. Explain LRU page replacement algorithm with the help of example.
- Q11. Explain round robin technique of process scheduling.