Roll No……..….. **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.