Code: 17F00305

MCA III Semester Supplementary Examinations May 2019
OPERATING SYSTEMS
(For 2017 admitted batches only)

Time: 3 hours   Max. Marks: 60

Answer all the questions
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1   Describe system calls. Also explain different types of system calls provided by an operating system.

OR

2   Explain process scheduling and inter process communication in detail.

3   Explain in detail of critical section problem.

OR

4   (a)   Describe shortest job first scheduling algorithm.
     (b)   Explain the scheduling criteria.

5   Explain the concepts of Paging and the structure of page table in detail.

OR

6   What is a deadlock? Explain the deadlock recovery process.

7   Describe in detail about the RAID structure.

OR

8   Discuss the operating structure of a file-system implementation and directory implementation.

9   Write about the following:
     (a)   Domain of protection.
     (b)   Language based protection.

OR

10   Write a brief note on cryptography and how to use it in computer security with one example.

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