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C16-CM-303

6229

BOARD DIPLOMA EXAMINATION, (C-16)
MARCH/APRIL—2021
DCME - THIRD SEMESTER EXAMINATION
OPERATING SYSTEM

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Define operating system. List any three operating systems.
2. List any six different types of system calls.
3. Define deadlock.
4. What is a semaphore?
5. Write about process control block.
6. Write about address binding.
7. Define swapping.
8. List various disk scheduling algorithms.
9. Write about disk structure.
10. List various file access methods.

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PART—B

10×5=50

- Instructions :** (1) Answer *any five* questions.
(2) Each question carries **ten** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Explain the following terms :
(a) Multiprogramming
(b) Time-sharing
12. Explain various types of thread and multithreading model.
13. Explain various techniques for deadlock prevention.
14. Explain the following terms :
(a) Priority scheduling algorithm
(b) Round robin scheduling algorithm
15. Explain single and multiple partition allocation.
16. Explain FIFO and LRU page replacement algorithms.
17. List and explain various allocation methods.
18. Explain various file operations.

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