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C14-CM-402/C14-IT-402

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BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—2017
DCME—FOURTH SEMESTER EXAMINATION
OPERATING SYSTEMS

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. List the types of operating system.
2. What are the types of system calls?
3. What is a thread? List its types.
4. List any three scheduling algorithms.
5. Define semaphore.
6. What is meant by overlay?
7. Define swapping.
8. What are the disk allocation methods?

- * 9. Define seek time and latency time.
10. Write the access control bits in file protection.

PART—B

10×5=50

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

11. List and explain various types of operating systems.
12. Explain briefly about process state diagram and process control block.
13. (a) Write the necessary conditions for arising deadlock. 4
(b) Explain the process of recovering from deadlock. 6
14. Explain about SJF and multilevel scheduling algorithms.
15. Explain paging and segmentation with neat diagram.
16. (a) Explain about working set model.
(b) Explain single-partition allocation method in memory management.
- * 17. List and explain any two disk scheduling algorithms.
18. List and explain various file access methods.
