4450

BOARD DIPLOMA EXAMINATION, (C–14)
OCT/NOV—2018
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. What is distributed operating system?

2. What is multiprogramming?

3. What is the concept of multithreading?

4. List the various states of a process.

5. Define a deadlock.

6. What is Swapping?

7. Define Thrashing?

8. Write about linked allocation method for disk space allocation.

9. Write about grouping method for free space management.

10. List various file access methods.

PART–B 10×5=50

Instructions : (1) Answer *any* **five** questions.

(2) Each questions carries **ten** marks.

(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

11. What are the components of an operating system? Explain.

12. Explain about process creation and process termination.

13. Explain round Robin and Fifo scheduling algorithms.

14. Expalin various techniuqes for deadlock prevention.

15. Write about dynamic loading and dynamic linking.

16. Explain optimal and LRU page replacement algorithm.

17. Explain about Disk structure.

18. Explain about various file protection methods.

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