

4450

**BOARD DIPLOMA EXAMINATION, (C-14)
MARCH /APRIL-2019
DCME - FOURTH SEMESTER EXAMINATION
OPERATING SYSTEMS**

Time: 3 Hours

Max. Marks: 80M

PART-A

10x3=30M

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

- 1) What is multiprocessor system?
- 2) What is Buffering and Spooling?
- 3) What is Multithreading?
- 4) Define a Semaphore.
- 5) What is inter process communication?
- 6) What is demand paging?
- 7) What is Overlay?
- 8) Write about linked list approach for free space management.
- 9) List the various disk allocation methods.
- 10) What are the basic functions of file management system?

*

PART-B

5x10=50M

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 answer.

- 11) Explain the concepts of multiprogramming and timesharing.
- 12) Explain about SJF and Round Robin scheduling algorithms.
- 13) Explain briefly about the process state diagram and process control block.
- 14) Explain about deadlock recovery procedure.
- 15) Explain about multiple partition allocation.
- 16) Explain working set model and page fault frequency.
- 17) Explain SST and C-scan disk scheduling algorithms.
- 18) Explain about various file access methods.

* * *

*

*