

C16/C-16S-CM/IT-402

5639

BOARD DIPLOMA EXAMINATION. (C-16/C-16S)

MARCH / APRIL - 2019

DCME - IV 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) Answer should be brief and straight to the point.

- 1 Define an operating system.
- 2 Differentiate between distributed and real time systems
- 3 What is program and process ?
- 4 Define semaphore.
- 5 What are various techniques for deadlock prevention ?
- 6 Write about address binding.
- 7 What is thrashing ?
- 8 Write about free space management.
- 9 List the various allocation methods.
- 10 Define file management.

PART - B

10×5=50

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

- 11 What is a system call ? Explain various system calls.
- 12 Draw and explain process state diagram.
- 13 List various scheduling algorithms and explain any one scheduling algorithm.
- 14 Define deadlock and explain the necessary conditions for arising deadlocks.
- 15 Explain demand paging. Write the advantages and disadvantages of demand paging.
- 16 Explain FIFO page replacement algorithm.
- 17 Explain C-Scan disk scheduling algorithm.
- 18 Explain different file accessing methods.

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