



C16-IT-403

6497

BOARD DIPLOMA EXAMINATION, (C-16)

JUNE—2019

DIT—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 operating system services.
2. Differentiate distributed and real time systems.
3. List the various CPU scheduling algorithms.
4. Write short note on process creation and termination.
5. State various techniques for dead lock prevention.
6. Explain briefly on dynamic linking.
7. Describe single partition allocation.
8. Explain C-SCAN disk scheduling algorithm.
9. Explain grouping in free space management with example.
10. List various operations of files.

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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 the criterion for valuation are the content but not the length of the answer.

11. Explain single user operating system and multi user operating system. 10
12. Describe the process of recovering from deadlocks. 10
13. Explain SJF and RR CPU scheduling algorithms with examples. 5+5
14. Describe scheduling queues and schedulers. 5+5
15. Describe FIFO page replacement algorithm with example. 10
16. What is segmentation? Explain with neat sketch. 10
17. Explain linked allocation and indexed allocation methods with examples. 10
18. Explain three structured and acyclic graph directories. 10

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