3459

BOARD DIPLOMA EXAMINATION, (C–09) OCT/NOV—2017

DCM—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. Define a system call.

2. List the types of operating systems.

3. Draw queueing diagram of a process scheduling.

4. When is a process terminated?

5. Name multithreading models.

6. What is the circular wait in a deadlock?

7. When does external fragmentation happen?

8. Name the page replacement algorithms.

9. Write about the C-scan disk scheduling.

10. What are the file operations?

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. Write about operating system services.

12. What is a process? Write about sequential and concurrent processes.

13. Explain the criteria of CPU scheduling algorithms.

14. Explain various techniques for deadlock prevention.

15. Explain paging technique.

16. Explain page replacement algorithms.

17. Explain free space management.

18. Explain the differences among file access methods.

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