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BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2015

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.** Write how a real-time operating system is different from time-sharing.
- 2. What do you mean by spooling and buffering?
- 3. What are the different states of a process?
- **4.** What resources are used when a thread is created? How do they differ from those used when a process is created?
- 5. What is meant by shared memory in interprocess communication?
- **6.** Is it possible to have a deadlock involving only one single process? Give your reasons.
- **7.** What is thrashing?

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- 8. What is contained in the page table?
- 9. What is the grouping approach of free space management?
- 10. What does CLOSE do in file operation?

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 different types of system calls.
- **12.** Write about the deadlock avoidance.
- **13.** (a) Write about the schedulers.
 - (b) Write about the scheduling criteria.
- **14.** Explain the FCFS scheduling.
- **15.** Write about address binding, dynamic loading, dynamic linking and overlays.
- **16.** Describe FIFO as a page-replacement algorithm.
- **17.** Explain the C-SCAN disk scheduling.
- 18. Explain the two-level and three-level directory structures.

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