C09–IT–**402**

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BOARD DIPLOMA EXAMINATION, (C–09)
MARCH/APRIL—2014
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. Write how the spooling is different from buffering.

2. What are the services of operating system?

3. When is the long-term scheduler invoked?

4. What are the advantages and disadvantages of SJF?

5. List the types of resources we might consider in deadlock problems on computers.

6. Write a short note on process creation.

7. List the common page allocation methods.

8. What is a working set?

9. What do you know about counting approach of free space management?

10. How are the read and write operations performed in sequential file access method?

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. Explain the multiprogramming and timesharing.

12. Explain how to recovery from deadlocks.

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

14. Explain the shared memory and message passing in interprocess communications.

15. Write about the virtual memory techniques.

16. Write about page replacement algorithms.

17. Compare among the contiguous, linked and indexed disk space allocations.

18. Explain any three types of directory structure organization.

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