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III Semester B.C.A. Examination, August 2011
OPERATING SYSTEM

Time : 3 Hours   Max. Marks : 80

Instruction : Answer all questions in Part – A and either (a) or (b) of each question in Part – B.

PART – A

I. Answer all the questions :   (10×1=10)

1) What are the functions of operating system ?

2) Define the states of process.

3) Define the process.

4) State the necessary conditions of deadlock.

5) What is fragmentation ?

6) Define frames.

7) Define mutual exclusion.

8) Define multiprocessor system.

9) Define Sequential access.

10) Define file system mounting.

II. Answer all the questions.   (5×4=20)

11) Define system programs.

12) Describe about address binding.

13) Describe about Thrashing.

14) Discuss the structure of page table.

15) What are the file operations ?

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PART – B

Answer **all** the questions. (10×5=50)

16) a. Discuss the following :

1) Round Robin algorithm

2) Multi level feedback queue scheduling.

OR

b. Explain the concept of Intercrosses communication.

17) a. What are the different types of CPU scheduling ?

OR

b. Explain the architecture of operating system.

18) a. Explain about demand paging.

OR

b. Short note on memory management.

19) a. Describe segmentation with example.

OR

b. Discuss the methods to avoid the deadlock situation.

20) a. Describe Authentication in detail.

OR

b. Explain about allocation methods.

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