BS 12 (NS)

I Semester B.Sc. (I.T.) Examination, June/July 2010
OPERATING SYSTEMS

Time : 3 Hours Max. Marks : 75

PART – A

Answer **all** the questions : **(10×2+5×1=25)**

1. Define System programs.
2. What is Multithreading ?
3. Define a program called a Driver.
4. What are the main responsibilities of an operating system ?
5. Define the life cycle of a process.
6. How the operating system maintains a table ?
7. Define Process Synchronisation.
8. What do you mean by Dead Lock avoidance ?
9. Explain the Banker's Algorithms.
10. Define Fragmentation.
11. Explain the following terms :
    a) Paging
    b) Segmentation
    c) Address Binding
    d) Mutual Exclusion
    e) Security.

P.T.O.

PART – B

Answer **any five** of the following questions : **(5×10=50)**

1. Write down the different qualities of operating system.

2. Explain the feature of operating system.

3. Explain the evaluation of operating system in detail.

4. Explain the process or CPU scheduling and explain any one scheduling algorithms.

5. What are the objectives of Virtual memory ?

6. When you need optimal page replacement algorithms ? Explain any two optimal page replacement algorithms.

7. Explain the algorithm to support mutual exclusion.

8. Explain the different types of access methods.

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