Roll No. ....

Printed Pages : 2

1242

BCA / D-18

OPERATING SYSTEM-I

Paper-BCA-352

Time allowed : 3 hours]   *[Maximum marks : 80*

*Note : Attempt any five questions in all, selecting at least **one** question from each unit. Question No. 1 is compulsory.*

Compulsory Question

1. (a) Define Real Time Operating System.

    (b) What do you mean by Spooling ?

    (c) Differentiate between a Program and a Process.

    (d) What is a Thread ?

    (e) Define the term 'Swapping'.

    (f) What do you understand by the term 'Deadlock' ?

    (g) What do you mean by file encryption ?

    (h) Briefly introduce Computer Virus ?   8×2=16

Unit–I

2. (a) What do you mean by an Operating System ? Give some examples of Operating System.   4, 2

    (b) Explain Operating System as a Manager of Resources.   10

3. Explain Multiprocessing Operating System in detail.   16

Unit-II

4. (a) Write a note on Process Control Block.   8

    (b) Discuss the various Operations on Processes.   8

5. Explain Multi-level feedback Queue Scheduling.   16

Unit-III

6. (a) What do you mean by Safe & Unsafe States regarding Deadlocks ?   3,3

    (b) Write down the Bankers Algorithm.   10

7. Explain the concept of Paging in detail.   16

Unit-IV

8. Discuss Demand Paging in detail.   16

9. Discuss the various file protection techniques.   16