BCA/D-17
OPERATING SYSTEM-I
Paper: BCA-352

Time: Three Hours   Maximum Marks: 80

Note: Attempt five questions in all, selecting at least one question from each Unit. Q. No. 1 is compulsory.

Compulsory Question

1. (a)   Define an Operating System.
   (b)   What do you mean by Buffering?
   (c)   Expand the following abbreviations :
         FCFS, SJP,FIFO, DRU.
   (d)   Define the term Scheduling.
   (e)   What is a page in paged memory management system?
   (f)   What is 'Safe State' regarding Deadlock Avoidance?
   (g)   What do you mean by a file?
   (h)   What is Thrashing?

Unit-I

2. Discuss the various functions performed by an Operating System.

3. Explain Multiprogramming Operating System in detail.

Unit-II

4. (a)   Introduce the term process.
   (b)   Explain the various process state and their transitions.

5. (a)   Discuss SJF Scheduling.
   (b)   Discuss Priority Scheduling.

Unit-III

6. Explain Deadlock Detection and Recovery.

7. Write explanatory note on Segmentation.

Unit-IV

8. Write the FIFO and LRU Page Replacement Algorithms.

9. Discuss the various file types and file attributes.