12452

MCA 1st Semester
(Regular/Re-appear/Improvement)
Examination – December, 2024

MODERN OPERATING SYSTEM WITH UNIX

Paper : MCA-2102

Time : Three Hours]   **[Maximum Marks : 80**

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Unit. Question No. **1** is *compulsory*. All questions carry equal marks.

1. Write short notes on the following :

   (a) UNIX operating system

   (b) Swapping

   (c) Deadlock detection

   (d) Standard error

   (e) Splitting files

P. T. O.

(f) Block and fragments

(g) C-Shell

(h) Function of system manager

UNIT – I

2. What do you mean by Operating System ? Differentiate between multiprogramming and Time sharing Operating System.

3. Explain the concept of demand paging and virtual memory.

UNIT – II

4. Discuss deadlocks. Also explain different methods of handling the deadlocks.

5. Explain files and directories in detail.

UNIT – III

6. Discuss different operations on file.

7. Focus on UNIX editor vi. Also discuss three modes of vi editor in UNIX.

UNIT – IV

8. Explain interactive shell scripts and their different uses.

9. Write notes on the following :

(a) AWK utility

(b) System administration

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