

Exam. Code : 110003

Subject Code : 2635

Bachelor of Vocation (Web Technology & Multimedia)

3rd Semester

OPERATING SYSTEM

Paper—302

Time Allowed—Three Hours] [Maximum Marks—50

Note :— Candidates are required to attempt **FIVE** questions, selecting at least **ONE** question from each Section. The **fifth** question may be attempted from any Section.

SECTION—A

1. Explain the process concept briefly. What are the different states of process ? 10
2. Explain the following types of Operating Systems :
 - (a) Time Sharing Operating System
 - (b) Distributed Operating System
 - (c) Batch Operating System
 - (d) Real Time Operating System. 4×2.5=10

SECTION—B

3. Explain FCFS, SJF and Round Robin scheduling algorithm with example. 10

4. Differentiate the following with examples :

(a) I/O bound and CPU bound

(b) Scheduler and Dispatcher.

5×2=10

SECTION—C

5. Explain different page replacement algorithms briefly with example. 10

6. What is a memory management ? Explain the difference between Physical and Logical address. 10

SECTION—D

7. What is Deadlock ? What are the various strategies to handle deadlocks ? 10

8. Explain following terms briefly :

(a) Kernel Mode and User Mode

(b) Cloning

(c) Signals

(d) Commands.

4×2.5=10