

Roll No.

Total Pages : 02

GSQ/D-23

1134

OPERATING SYSTEM-I

BCA-352

Time : Three Hours]

[Maximum Marks : 80

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

Compulsory Question

1. With reference to the Operating System, answer the following : 2×8=16
- | | |
|----------------------|---------------|
| (i) Multiprogramming | (ii) Parallel |
| (iii) PCB | (iv) SJF |
| (v) Thread | (vi) Paging |
| (vii) Segmentation | (viii) FIFO |

Unit I

2. What is Operating System ? Elaborate the classification of Operating System. 16
3. Describe the role of system calls and system programs in Operating System. 16

Unit II

4. Explain process scheduling. 16
5. Explain the role of thread in Inter-Process Communication. 16

Unit III

6. What is Deadlock ? Briefly explain various types of handling deadlock. 16
7. Explain various techniques of memory management for the effective running of Operating System. 16

Unit IV

8. What is virtual memory ? How is page replacement performed ? 16
9. Elaborate how data files are managed by Operating System. 16