

(T-265)

Roll No.

ID—180-CU-304011

B.C.A. EXAMINATION, 2023

(Third Semester)

INTRODUCTION TO OPERATING SYSTEM

Code : BCS-201

Time : 3 Hours

Maximum Marks : 80

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

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

1. (a) What is a Thread ?
- (b) What is the multitasking ?
- (c) What is a priority queue ?
- (d) What is a logical Address ?
- (e) What is Thrashing ?
- (f) What is a segment table ?
- (g) What is Multiprocessing ?
- (h) What is a PCB ? 2×8=16

Unit I

2. What is an operating system ? What are its different functions ? 16
3. Explain the various components of operating system by taking examples from an operating system. 16

Unit II

4. (a) What is a process control block ? What is the function of a process control block ? 8

(b) What are the various states of a process ?
Explain. 8

5. What do you mean by CPU Scheduling ?
Explain the CPU scheduling techniques with
examples. 16

Unit III

6. Explain the segmentation memory management
scheme in detail. 16

7. What is Paging ? What are the main advantages
of paging ? Also explain demand paging
concept. 16

Unit IV

8. Explain different Disk scheduling algorithms
in detail. 16

9. Explain the contiguous and linked allocation
techniques. 16