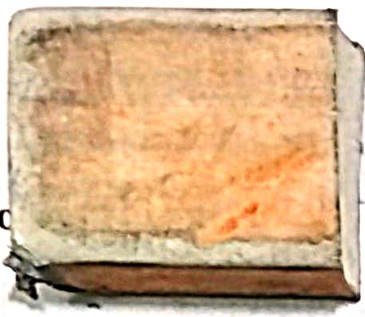


Roll No



Exam Code : D-24

Subject Code—62389

B.Sc. EXAMINATION

(Main/Reappear)

(Batch 2020 Onwards)

(Third Semester)

COMPUTER SCIENCE

CCsL-305, Course-VI

Operating System

Time : 3 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.

1. (a) What is Thread ?
- (b) What is Multiprocessing ?

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- (c) What is SJF Algorithm ?
- (d) What is a Shell Script ?
- (e) What is Thrashing Table ?
- (f) Explain Segmentation.
- (g) What is FCFS ?
- (h) Explain Disk Structure. $2 \times 8 = 16$

Unit I

- 2. (a) Explain various services of operating system. 8
- (b) Explain any *four* CPU scheduling techniques/Algo. 8
- 3. Explain the following : $4 \times 4 = 16$
 - (a) Process
 - (b) PCB
 - (c) Interprocess Communication
 - (d) Process States.

Unit II

4. Explain the following : 4×4=16

- (a) Virtual Memory
- (b) Page map Table
- (c) Page Fault
- (d) Thrashing.

5. (a) What do you mean by Fixed Memory partition ? Explain the advantages of fixed memory partition. 8

(b) Paging and Swapping. 8

Unit III

6. Explain Sequential, direct and indexed file access methods in detail. 16

7. Explain the following :

- (a) Linear List and Hash Table 8
- (b) Contiguous allocation and FAT. 8

Unit IV

8. What do you mean by Shell ? Explain various editors present in UNIX operating system. 16
9. Define various loops in shell. Also elaborate the method to write and execute the shell script with suitable example. 16