Enrollment No: _____ Exam Seat No.:_____

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name: Operating System
Subject Code: 4CS05BOS1/4CS05IOS1 Branch: BCA/B.Sc.I.T.
Semester: 5 Date: 16/03/2019 Time: 10:30 To 01:30 Marks: 70

Instructions:
(1) Use of Programmable calculator & any other electronic instrument is prohibited.
(2) Instructions written on main answer book are strictly to be obeyed.
(3) Draw neat diagrams and figures (if necessary) at right places.
(4) Assume suitable data if needed.

Que-1 Attempt all following questions. [14]

1. Give full form of PCB.
2. What is shell?
3. Define kernel.
4. What do you mean by deadlock?
5. What is logical address space?
6. Define page.
7. What is file?
8. What is the use of clear command?
9. Explain usage of rmdir command.
10. Which command is used to count no. of characters in a file?
11. What is swapping?
12. Define thread.
13. What do you mean by throughput?
14. Define operating system.

Attempt any four questions from Que-2 to Que-8

Que-2 Attempt all questions. [14]

1. Discuss various system programs in detail. [5]
2. Explain different operating system services. [5]
3. What is ordinary file and device file? [4]

Que-3 Attempt all questions. [14]

4. Write a note on virtual memory. [5]
5. Discuss demand paging in detail. [5]
6. Explain PCB in short. [4]

Que-4 Attempt all questions. [14]

1. Explain characteristics of deadlock. [5]
2. Write a note on segmentation. [5]
3. Explain SJF algorithm with example. [4]

Que-5 Attempt all questions. **[14]**

1. Explain various attributes of file. [5]
2. Write a note on deadlock recovery. [5]
3. Discuss different file operations. [4]

Que-6 Attempt all questions. **[14]**

1. Discuss different types of operating system in detail. [7]
2. Define process. Explain different process states with diagram. [7]

Que-7 Attempt all questions. **[14]**

1. Write a note on various shells in UNIX. [5]
2. Explain ls and cat commands in detail. [5]
3. Explain wc and mkdir commands. [4]

Que-8 Attempt all questions. **[14]**

1. What is UNIX? Explain its architecture with diagram. [7]
2. Define vi editor. Discuss various modes of vi editor in detail. [7]