

B.Tech. SEM -VI Info. Tech. 2014 Course (CBCS) : SUMMER - 2019
SUBJECT: OPERATING SYSTEM

Day: Wednesday
Date: 22/05/2019

Time: 02.30 PM TO 05.30 PM
Max Marks: 60

S-2019-2748

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data if necessary.

Q.1 Enlist And Explain Basic Functions Of Operating System? (10)

OR

Q.1 What Is Virtual Machine? Explain Concept Of Virtualization In Detail? (10)

Q.2 State And Explain Multiprocessor Thread Scheduling Approaches? (10)

OR

Q.2 What Is Thread? How They Are Different From Processes? List Different Types Of Threads Models? Explain Any One? (10)

Q.3 Write A Semaphore Solution For Dining Philosopher Problem? (10)

OR

Q.3 What Is Inter-Process Synchronization? Write Solution For Producer Consumer problem Using Semaphore. (10)

Q.4 For a Following Reference String 1,2,3,4,2,1,5,6,2,1,2,3,3,6. Count The Number Of Page Faults That Occurs With 3 Frames Using FIFO And LRU Page Replacement Method. Discuss The Result. (10)

OR

Q.4 What Are Common Techniques For Structuring The Different Buffering Techniques? (10)

Q.5 Explain In Brief Different I/O Buffering Techniques. (10)

OR

Q.5 Explain Different Disk Scheduling Algorithms. (10)

Q.6 Describe Linux Kernel Module Programming. (10)

OR

Q.6 List And Explain Different Characteristics Of Embedded Operating System. (10)