

B.Tech. SEM -VI Info. Tech. 2014 Course (CBCS) : WINTER - 2018

SUBJECT: OPERATING SYSTEM

Day: Tuesday
Date: 13/11/2018

W-2018-2483

Time: 10.00 AM TO 01.00 PM
Max Marks: 60

N.B.:

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

Q.1 Explain Basic Functions Of Operating System And Different Evolutions 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 Consider Following Processes Where Arrival And Burst Time Are Shown Below- (10)

Process	Burst Time	Arrival Time
P1	05	0
P2	04	2
P3	07	3
P4	06	5

Calculate Average Waiting Time And Average Turn-Around Time, If The Processes Are Scheduled Using FCFS.

Q.3 Explain Concept Of Critical Region And Mutual Exclusion With Example. (10)

OR

Q.3 What Are Different Ways To Handle Deadlock? Explain Each With Example? (10)

Q.4 What Is Demand Paging? Explain Design Issues In Paging. Explain With Example. (10)

OR

Q.4 Explain First Fit, Best Fit, And Worst Fit Algorithms With Example. (10)

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

OR

Q.5 Explain Linux Virtual File System. (10)

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

OR

Q.6 Explain Service Oriented Operating System. (10)