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Total No. of Pages : 02

Total No. of Questions : 09

**B.Tech (Electronic & Computer Engineering) (Sem.-5)****OPERATING SYSTEM**

Subject Code : BTCS-401

Paper ID : [A2112]

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

**SECTION-A****1. Answer briefly :**

- a. What is multi user operating system?
- b. How multitasking is used?
- c. What is Preemptive scheduling?
- d. What is the function of Shell?
- e. Draw block diagram of Process Control Box.
- f. How context switching is used in multiprogramming?
- g. What is Thrashing?
- h. Define Segmentation.
- i. Discuss distributed Operating System.
- j. What is scheduler?

**SECTION-B**

- Q2 Explain the Memory Management policies in Operating Systems.
- Q3 Find Waiting Time and Turnaround time for given Process using FCFS and SCF Algorithms

Process	Arrival Time(ms)	Burst Time (ms)
P1	1	5
P2	2	4
P3	2	7
P4	3	2

- Q4 Write overview of Process Synchronization.
- Q5 What is Demand Paging? How the page size is selected in demand paging?
- Q6 What are File Systems in Operating systems? Explain different access methods.

**SECTION-C**

- Q7 What are the features of LINUX operating System? Why LINUX is secure operating system?
- Q8 Discuss various protection modes for file systems.
- Q9 What is deadlock prevention Strategies? Explain.