

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(CE/ECE) (Sem.-6)

OPERATING SYSTEM

Subject Code : BTIT402/18

M.Code : 79636

Date of Examination : 28-05-2024

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. Write briefly :

- a) Define Kernel.
- b) Write the concept of context switching.
- c) Write concept of Multitasking.
- d) What are Deadlocks?
- e) What do you understand by page fault?
- f) What are services of OS?
- g) Write concept of swapping.
- h) What are Process States?
- i) How segmentation is used in OS?
- j) What are services of Operating System?

SECTION-B

2. What do we mean by Process Management? What are the states of a process in OS?
3. What is a thread? Explain multithreading. What are types of threads?
4. 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

5. What are classical IPC problems?
6. What are the conditions for process in critical section.

SECTION-C

7. Explain the concept of file system in Operating System. What are types of file allocation methods? Explain the advantages and disadvantages of using a file system.
8. What are the different terminologies to take care of in any CPU scheduling? Explain any three scheduling algorithms with the help of examples.
9. Explain the concept of Operating Systems. What are types of operating system? What are Operating System services?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.