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Total No. of Pages : 02

Total No. of Questions : 09

B.Voc. (Web Technologies and Multimedia) (Sem.-3)

OPERATING SYSTEM

Subject Code : BVWM304-19

M.Code : 78642

Date of Examination : 15-12-2023

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) Differentiate between Program and Process.
- b) What is the process context? Explain in brief.
- c) What are the advantages and disadvantages of Time sharing Operating System?
- d) Define Inter process communication.
- e) What are the objectives of CPU Management?
- f) Explain the difference between Physical and Logical address.
- g) Define External fragmentation. What are the causes for external fragmentation?
- h) Define rotational latency and seek time.
- i) What is the use of directory structure?
- j) Explain in brief about denial of services.

SECTION-B

2. Explain the following classification of operating systems in detail
 - a) Multiprogramming
 - b) Multi-threaded
3. Explain various benefits of threads in detail.
4. Write a detailed note on Shared Memory Model of Inter-process communication along with their advantages and disadvantages.
5. Write a detailed note on Page replacement.
6. Explain various file access methods in detail.

SECTION-C

7. Write a detailed note on following in reference to Inter-process communications :
 - a) Pipe
 - b) FIFO
 - c) Socket
8. Write a detailed note on various disk-scheduling algorithms.
9. **Write a detailed note on following :**
 - a) Application Security
 - b) Virus and Antivirus

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.