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Total No. of Pages : 02

Total No. of Questions : 07

BCA (Sem-4)
OPERATING SYSTEMS
Subject Code : UGCA-1923
M.Code : 79727
Date of Examination : 23-05-2025

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 **SIX** questions carrying **TEN** marks each and students have to attempt any **FOUR** questions.

SECTION-A

1. Answer briefly :

- a) List various views of Operating system.
- b) Define the term long term scheduler.
- c) Differentiate between Program and Process.
- d) Define the term address binding.
- e) Write advantages of Virtual Memory.
- f) Explain the need of Page Replacement.
- g) List various File Operations.
- h) Define the term Disk Bandwidth.
- i) What are the two main components of a Real Time Operating System?
- j) Why is synchronization important in multiprocessor Operating systems?

SECTION-B

2. Write a detailed note on Structure of Operating System.
3. Explain in detail about Process Synchronization.
4. Write a detailed note on Segmentation Scheme of Memory Management.
5. Write a detailed note on Memory Sharing and Protection.
6. Write a detailed note on Device drivers.
7. Write a detailed note on Distributed Operating System Characteristics, architecture and Issues.

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