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Total No. of Pages : 02

Total No. of Questions : 07

**B.Sc.(Data Analytic) (Sem.-3)**

**OPERATING SYSTEMS**

**Subject Code : UGCA1923**

**M.Code : 92552**

**Date of Examination : 12-12-22**

**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. Write briefly :**

- a) What do you mean by PCB? Explain
- b) Differentiate between Pre-emptive and Non-preemptive scheduling algorithms.
- c) Define the term Process Synchronization.
- d) Explain the difference between logical and physical addresses?
- e) What is demand paging? Explain.
- f) Explain in brief about address binding.
- g) Define the term Disk Bandwidth.
- h) List various file operations.
- i) Define the term Distributed Operating Systems.
- j) List various characteristics of Distributed operating System.

## **SECTION-B**

2. Write a detailed note on different types of Operating Systems.
3. Explain threads in detail? What are differences between user level threads & Kernel supported threads?
4. Write a detailed note on Paging Scheme of Memory Management.
5. Explain the following terms in detail :
  - a) Real Time Operating System
  - b) Disk Storage.
6. Explain in detail about the following terms :
  - a) Remote file systems
  - b) File Protection.
7. Write a detailed note on Multiprocessor Operating System.

**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.**