

Roll No.

Total No. of Pages : 2

Total No. of Questions : 07

BSc (CS) (Sem.-2)
OPERATING SYSTEMS

Subject Code : UGCA1923

M.Code : 91715

Date of Examination : 20-12-2022

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 are the main purposes of an operating system?
- b. What are the main advantages of the multiprogramming?
- c. What do you understand by Spooling?
- d. What is a system call?
- e. What is a Multiprocessing system?
- f. What would be the effect of the system running too processor intensive jobs?
- g. What is a real time operating system?
- h. What do you understand by scheduling?
- i. Give at least three different view of Operating System.
- j. What would be the effect of the system running too many I/O jobs?

SECTION-B

2. What is round robin scheduling? Explain taking any example. Can it be useful for a single user system? If yes, then explain . If no, then why not?
3. Describe the differences between short term, medium term and long term scheduling.
4. What is a distributed operating system? How communication and synchronization is handled in distributed operating system?
5. Explain the following page replace algorithms (a) LRU (b) Optimal replacement
6. What is the difference between dedicated, and virtual device.
7. What are the various criteria for process scheduling? Explain with example.

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.