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BCA (Sem.-4)

OPERATING SYSTEMS

Subject Code : UGCA-1923 M.Code : 79727

Date of Examination : 11-07-22

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 is an operating system?
- b) What does PCB contain?
- c) What do you mean by process synchronization?
- d) What is a scheduler?
- e) Define critical section.
- f) Differentiate between paging and segmentation.
- g) What do you mean by Best Fit and First fit?
- h) List the various File Attributes.
- i) Define device drivers.

j) Define distributed operating system.

SECTION-B

- 2. Discuss the Simple Operating System Structure. Describe the layered approach.
- 3. What is the important feature of critical section? State the Readers Writers problem and give solution using semaphore.
- 4. What are the various criteria for a good process scheduling algorithm? Explain any two preemptive scheduling algorithms in brief.
- 5. Explain with the help of examples FIFO and LRU, optical page replacement algorithms with example reference string. Mention the merits and demerits of each of the above.
- 6. a) What are the typical access rights that may be granted or denied to a particular user for a particular file.
 - b) What are the various methods for disk allocation?
- 7. Define Distributed Operating System. Discuss about its architecture and characterstics.

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.