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Total No. of Pages : 02

Total No. of Questions : 09

PGDCA (2018 Batch) (Sem.-I)
COMPUTER OPERATING SYSTEM
Subject Code : PDCA-103
M.Code : 50503

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION 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. Answer briefly :

- a) What is kernel of an Operating System?
- b) Name different states of a process.
- c) Discuss briefly First Come First Serve.
- d) Define Deadlock.
- e) Enlist the two types of memory management techniques.
- f) Differentiate paging and segmentation.
- g) Comment on the phrase "Locality of Reference".
- h) Why is File Management important?
- i) How DMA is related to device management?
- j) Demonstrate the concept of password authentication briefly.

SECTION-B

2. Explain the Boot process of Operating system.
3. What is meant by process scheduling? Explain Shortest Job First.
4. Discuss any deadlock avoidance algorithm by taking suitable example.
5. What is inverted page table? Explain the segmented paging technique.
6. What are program threats? Explain the process of identification and prevention from threats.

SECTION-C

7.
 - a) What is memory mapped I/O? How is it different from polled I/O? Explain.
 - b) What is software organization? Differentiate buffering and caching.
8. What is meant by inter-process communication? Explain any algorithm for process synchronization.
9. What is directory structure? Explain different functions of file system.

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.