

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

**PGDCA (2017 & Onwards) (Sem.-1)**  
**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) Difference between Program and Process.
- b) What do you mean by Semaphore?
- c) Define 'Inter Process Communication'.
- d) Give the full form of FCFS.
- e) What do you mean by Thrashing?
- f) What is Virtual Memory?
- g) Why Swapping is used?
- h) What is Page?
- i) What do you mean by Non-Preemptive Scheduling?
- j) Define the term 'Locality of Reference'.

### SECTION-B

2. Explain Round Robin and Shortest Job Process Scheduling algorithms in detail.
3. Discuss any two Page Replacement Algorithms in detail.
4. Compare both Sequential and Direct File Access Methods in detail.
5. Write a short note on Segmentation.
6. Explain the state of Processes in detail.

### SECTION-C

7. What do you mean by Operating System? Discuss its functions in detail.
8. What are the four necessary conditions for Dead Lock Prevention?
9. Write short notes on Paging.

**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.**