

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 07

BCA (2014 to 2018) (Sem.-4)

OPERATING SYSTEMS

Subject Code : BSBC-403

M.Code : 10068

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 system programs? Write name of **any two** system programs.
- b) Explain in brief about the term Bootstrap.
- c) Differentiate between pre-emptive and Non-pre-emptive scheduling.
- d) Explain in brief about convoy effect in relation to FCFS CPU scheduling.
- e) Explain the term address binding in brief.
- f) What do you mean by device drivers? Explain
- g) Differentiate between seek time and Latency time in relation to disk storage.
- h) Define the term file. List **any four** file operations.
- i) Differentiate between Protection and Security.
- j) What do you mean by Virus? Explain.

SECTION-B

2. a) Explain in brief about following classification of operating systems :
 - i) Multiprogramming
 - ii) Time Sharing
- b) Write a detailed note on functions of an operating system.
3. Explain in detail about following :
 - a) Multi-processor Scheduling
 - b) Thread scheduling
4. Explain the following terms in relation to Inter-process Communication
 - a) Pipe
 - b) FIFO
5. Explain in detail about Segmentation scheme of Memory Management.
6. Write a detailed note on following terms:
 - a) Remote file systems
 - b) File Protection
7. Write a detailed note on following terms in relation to protection and security :
 - a) Access control
 - b) Authentication

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.