

Roll No.

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 :

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