

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

BCA (2011 & Onward) (Sem.-4)

OPERATING SYSTEMS

Subject Code : BSBC-403

Paper ID : [B0242]

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 has to attempt any FOUR questions.**

SECTION-A

1. Write briefly :

- a) Define the term System Programs.
- b) List the features of multithreaded operating system.
- c) What is meant by pipe?
- d) Discuss the concept of thrashing.
- e) List the different types of viruses and anti-viruses.
- f) How relocation is carried out?
- g) What is the purpose of linking?
- h) How non-preemption is useful?
- i) Write short note on remote file system.
- j) Write short note on address binding.

SECTION-B

2. What is meant by Multiuser and Multi programming Operating System? Discuss their characteristic features.
3. Describe the role of ready running and blocked states of a process life cycle. How the transitions among these states is carried out?
4. Discuss first cum first serve and multiprocessor scheduling schemes.
5. What is meant by message passing and shared memory model for inter process communication? Explain.
6. Differentiate between the following :
 - a) Paging and Demand Paging
 - b) LRU and Optimal page replacement algorithm
7. Discuss the role of device controllers and device drivers for input output device management.