

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

INSTRUCTION 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 a student has to attempt any **FOUR** questions.

SECTION-A

I. Write short notes on :

- (a) What are Application Programs?
- (b) What is Time Sharing Operating Systems?
- (c) What is Synchronization?
- (d) What do you mean by Thread Scheduling?
- (e) What is Paging and Segmentation?
- (f) List any two I/O devices and controllers
- (g) What is Address Binding?
- (h) What is VIRUS? What are its types?
- (i) What is Encryption?
- (j) What is the need for Firewall?

SECTION-B

2. Explain classification of Operating Systems with proper example.
3. Write short notes on :
 - (a) Thread Management
 - (b) Program vs. Process
4. What is Virtual Memory? What is the concept of Virtual Memory? Discuss various advantages and disadvantages of virtual memory.
5. Write short Notes on :
 - (a) Remote File Systems
 - (b) Various Access Methods
6. What is Paging? Explain hardware support for Paging. How it is different from segmentation?
7. Explain the following :

- Attacks.
- (a) Application Security and
 - (b) What is the difference between Anti-virus and Firewall?