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

l.   **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 :

    (a) Application Security and Attacks.

    (b) What is the difference between Anti-virus and Firewall?