Roll No. [   ]   **Total No. of Pages : 2**

Total No. of Questions : 07

BCA (Sem.–4th)

OPERATING SYSTEMS

Subject Code : BSBC-403 (2011 Batch)

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 students has to attempt any FOUR questions.**

SECTION-A

1. Answer briefly :

   a) Define the term Bootstraping.

   b) List the features of Timesharing operating system.

   c) What is meant by socket?

   d) How thrashing can be handled?

   e) List the different types of attacks on software.

   f) How virtual memory is managed?

   g) What is the purpose of context switching?

   h) How performance of demand paging can be measured?

   i) Write short note on Preemption.

   j) Write short note on system programs.

SECTION-B

2. What is meant by an Operating System? Discuss the functions of an operating system. 10

3. Describe the role of different states of a process life cycle. How the transitions among different states is carried out? 10

4. How process scheduling is classified? Discuss shortest job first and round robin scheduling schemes. 10

5. What is meant by inter process communication? Discuss the message passing model. 10

6. Differentiate between the following :

   a) Paging and Segmentation

   b) FIFO and LRU page replacement algorithm 10

7. How input output device management is carried out? Discuss the role of device controllers. 10