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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.

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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.

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