Roll No. Total No. of Pages : 02

Total No. of Questions: 07

BCA (2013 & Onward) (Sem.-4)
OPERATING SYSTEMS
Subject Code: BSBC-403
M.Code: 10068

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

1. Answer briefly:

- a) What are Application Programs?
- b) What is multi user operating systems?
- c) Discuss the address space in Threads.
- d) What is the purpose of socket?
- e) Give main objectives of context switching.
- f) Define Virtual memory concept.
- g) Show the concept of Thrashing.
- h) What is disk scheduling?
- i) List file access methods used in OS.
- j) Write the functioning of Firewalls.

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SECTION-B

- 2. Explain the following:
 - a) Middle Layer Subsystems in OS
 - b) Shared Memory Model
- 3. What is thread management in operating system? Explain the applications of thread.
- 4. Explain the need of CPU Management. Which are the different scheduling schemes?
- 5. What is the importance of paging and segmentation in memory management? Explain with diagram.
- 6. Define concept of File Operations. Give the process of directory structures and File management.
- 7. Discuss various system threats to Operating System. What is access control and authentication?

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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