

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 07

BCA (2011 & Onwards) (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

1. Write briefly :

- (a) What is the need of operating system?
- (b) How you can classify operating systems?
- (c) What is File Protection?
- (d) What do you understand by identification?
- (e) Explain the physical address space.
- (f) What is thrashing?
- (g) What are the different device drivers?
- (h) Explain FIFO and Socket.
- (i) Define Anti Virus and its types.
- (j) What is Software and Hardware?

SECTION-B

2.
 - a) What are the functions of an Operating System?
 - b) Explain sub systems : Top Layer, Middle Layer and Bottom Layer
3. Write short notes on :
 - a) Process State Diagram
 - b) Inter process Communication
4. Write short notes on :
 - a) Page replacement
 - b) Loading, Linking and relocation
5. What are the different techniques of File Management? Explain in detail.
6. Explain :
 - a) Different File Operations
 - b) Directory Structures and management
7. What is the role of software and hardware in the security of system? How will the system be protected from unauthorized use and Virus?