

Roll No. 

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**Total No. of Pages: 01**  
**Total No. of Questions: 07**

**BCA (Sem.-4<sup>th</sup>)**  
**OPERATING SYSTEMS**  
**Subject Code: BSBC-403**  
**Paper ID: [B0242]**

**Time: 3 Hrs.**

**Max. Marks: 60**

**INSTRUCTIONS TO CANDIDATE:**

1. Section –A is compulsory. Each question carry Two marks.
2. Attempt any Four questions from Section-B. Each question carry Ten marks

**Section –A**

**(10x2=20)**

Q.1 Write short notes on:

- (a) What is antivirus?
- (b) What is differentiate between Process and program?
- (c) Differentiate between virus and worm.
- (d) Define Bootstrapping.
- (e) What do you mean by multi threading?
- (f) Differentiate between Logical versus Physical address space.
- (g) What is difference between application program and system programs.
- (h) Differentiate between Multiprogramming and Multitasking
- (i) Explain any one method to protect a file.
- (j) What is Multi User Operating System?

**SECTION –B**

**(4x10=40)**

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|-----|--|------|
| Q.2 | Explain in detail inter Process Communication.                       | (10) |
| Q.3 | a) Write a short note on Paging and Segmentation.                    | (6)  |
|     | b) Discuss thrashing.  | (4)  |
| Q.4 | Explain the working of I/O device management system.                 | (10) |
| Q.5 | a) Write a short note on system threats and Encryption.              | (5)  |
|     | b) Discuss the functionality of firewall.                            | (5)  |
| Q.6 | a) Briefly explain scheduling criteria in CPU.                       | (5)  |
|     | b) Write a note on scheduling Algorithms.                            | (5)  |
| Q.7 | a) What do you know about File and Access method of file management? | (6)  |
|     | b) What is remote file system?                                       | (4)  |

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