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Total No. of Pages : 02

Total No. of Questions : 07

B.Sc.(IT) (Sem.-3)
OPERATING SYSTEM
Subject Code : BS-203
Paper ID : [B0410]

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**Q1) Write briefly :**

- a) Describe Interrupt driven I/O cycle.
 - b) Name the different process states.
 - c) Where does Semaphores find their applications in operating systems?
 - d) Explain the term Demand Paging.
 - e) How swapping of two processes can take place?
 - f) Write a note on the Boot Process.
 - g) Enlist different types of directory structures.
 - h) Define Buddy system.
 - i) What is the purpose of Caching?
 - j) Explain the term RAID.
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SECTION-B

- Q2) Explain in detail paging and segmentation schemes of memory management with suitable examples.
- Q3) What is an operating system? What are the functions of operating system and explain its types?
- Q4) a) '*A major security problem for operating systems is user authentication*'. Justify this statement with detailed explanation and example.
- b) Write a note on Program Threats.
- Q5) What is a File? Explain different access methods in file management.
- Q6) What is a Deadlock? How a deadlock can be avoided? Explain.
- Q7) Explain the concept of Direct Memory Access in detail.

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