

Roll No. 

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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****1. Write briefly :**

- (a) List any five functions of Operating System.
  - (b) Define the term Bootstrapping.
  - (c) Give any one difference between a process and a thread.
  - (d) Explain best fit and worst fit algorithm of allocation.
  - (e) Why the page size is always in powers of 2?
  - (f) Define preemptive and non-preemptive scheduling.
  - (g) What is Prepaging?
  - (h) Why is protection of file required?
  - (i) Define the term RAID.
  - (j) Explain categories of threat.
-

## SECTION - B

- 2) What do you mean by Scheduling? Explain various CPU scheduling algorithms with examples.
- 3) What is deadlock? Explain necessary conditions for deadlock. What are the various methods for prevention and avoidance of deadlock?
- 4) What is Paging? How it is different from Segmentation? Explain.
- 5) Write short note on the following :
  - (a) Semaphores
  - (b) Fragmentation
- 6) What do you mean by device management? Explain I/O Hardware Organization.
- 7) What are Program Threats? How will the system be protected against these threats?

a2zpapers.com