Roll No. ....

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

B.Sc. IT (Sem. – 3rd)
OPERATING SYSTEM
<u>SUBJECT CODE</u> : BS - 203
<u>Paper ID</u> : [B0410]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours **Maximum Marks : 60**

Instruction to Candidates:
  1) Section - A is **Compulsory**.
  2) Attempt any **Four** questions from Section - B.

Section - A

Q1) *(10 × 2 = 20)*
  a) What is the difference between system program and application program?
  b) Define logical address space of a process.
  c) What is Convoy effect?
  d) What is the disadvantage of paging system?
  e) Define critical section problem.
  f) What is the cause of thrashing?
  g) What is the difference between SCAN and C-SCAN scheduling?
  h) What is deadlock Prevention?
  i) How two level directory structures differ from single level directory?
  j) What is data encryption?

Section - B

(4 × 10 = 40)

Q2) What is Multiprogramming operating system? Explain functions of the multiprogramming systems.

Q3) What is process scheduling? Explain different scheduling techniques.

Q4) How does paging differ from fixed partition scheme? Explain address translation and relocation in paging.

Q5) What is file? Explain different access methods in file management?

Q6) What is a threat? Differentiate between system threats and program threats. Also discuss method to deal with them.

Q7) What is a deadlock? What are various conditions for its occurrence? How to prevent Deadlock? Illustrate with the examples.

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