

Roll No.

Total No. of Questions : 07]

[Total No. of Pages : 02

BCA (Sem. - 4th)
OPERATING SYSTEMS
SUBJECT CODE : BC - 404
Paper ID : [B0218]

[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 Booting?
- b) Give two examples of Multi tasking Operating Systems.
- c) What is Round Robin?
- d) Differentiate between multitasking and multiprogramming Operating Systems.
- e) Differentiate between page and frame of memory.
- f) What is Spooling?
- g) What is thrashing?
- h) What is critical section?
- i) What is context switching?
- j) Differentiate between program and system threats.

Section - B

(4 × 10 = 40)

- Q2)** What are the typical operating system services? Differentiate among the different types of Operating systems.
- Q3)** Explain the different states of process? What is the purpose of process control block?
- Q4)** What is demand paging? Explain the concept by taking a suitable example.
- Q5)** How process deadlocks can be prevented? How a system can detect deadlock and recover from it?
- Q6)** What are the main limitations of contiguous memory allocation? Explain the other Memory allocation methods.
- Q7)** (a) Describe the different encryption methods for file protection.
(b) What is segmentation?

