

ROLL No:

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Total number of pages: (1)

MCA 3rd Sem
Operating System
Subject Code: MCAP1-313
Paper ID:

Time allowed: 3 Hrs

Max Marks: 60

Important Instructions:

- All questions are compulsory

PART A (10x 2marks)

Q. 1. Short-Answer Questions:

- How operating system work as resource manager?
- What are real time system ?
- What is SJF scheduling?
- What are the various functions of kernel.
- What is segmentation?
- What is thrashing?
- What are threads?
- Define Inter process communication.
- Define virus and worms.
- Differentiate between LOOK and C-LOOK?

PART B (5x8marks)

Q. 2. What is Operating System? What are its views? Explain various types of CO1
operating systems.

OR

Write a short note on:

CO1

- Operating System structure
- PCB

Q. 3. Explain the concept of Paging in Memory Management schemes.

CO2

OR

Explain various CPU scheduling algorithms.

CO2

Q. 4. What is deadlock? Explain various deadlock prevention and avoidance CO3
techniques?

OR

Explain various page replacement algorithms.

CO3

Q. 5. What is file and directory? Explain various file allocation methods.

CO4

OR

Write a short note on:

CO4

- Virtual Memory
- Thrashing

CO5

Q. 6. Explain various security measures used for operating system.

OR

Write a short note on case studies of LINUX/UNIX operating systems?

CO5