QP CODE: 25021089

25021089

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE / MERCY CHANCE EXAMINATIONS, FEBRUARY 2025

Sixth Semester

B.Sc Computer Applications Model III Triple Main

CORE COURSE - CT6CRT03 - OPERATING SYSTEMS

2017 Admission Onwards

7BFE102B

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Define Dual Mode operations.
2. List out 4 Information maintanace system calls.
3. Define operating system interface.
4. Define Ready Queue and Job Queue.
5. Explain Round Robin scheduling Algoritham.
6. Define Dispatch Latency.
7. Write the syntax of monitor.
8. What do you mean by starvation and Rollback in deadlock?
9. Define Memory Management strategies with figure.
10. Define Contiuguous memory Allocation.
11. Define Directory structure.
12. What is low-level formatting?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Explain Distributed operating system.

14. Explain the operations of process.

15. Explain inter process communications.

16. What is Synchronization hardware?

17. Explain swapping with neat diagram.

18. Explain Hardware support for paging.

19. Draw a Diagram of steps in handling a page fault in demand paging.

20. Describe various file accessing methods.

21. What are the various layers of file system?

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain the functions of os.

23. Explain scheduling algorithms.

24. What are the Different classic problems of Synchronization
    a)The Bounded-Buffer Problem
    b)The Readers_Writers Problem
    c)The Dining _Philospher's Problem

25. Explain different file allocation methods.

(2×15=30)