24001331

QP CODE: 24001331

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, MARCH 2024

Sixth Semester

B.Sc Computer Applications Model III Triple Main

CORE COURSE - CT6CRT03 - OPERATING SYSTEMS

2017 Admission Onwards

69799D63

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. What is the multiprocessor system and give their adavantage?
2. Define system calls.
3. Define operating system interface.
4. Define PCB.
5. Define CPU Dispatcher.
6. Define Process creation and Termination.
7. What are the entery section and exit section in critical section?
8. Define Banker's Algoritham.
9. Define a 'Hole' in contiguous memory Allocations.
10. Define Virtual Memory.
11. What are the functions of virtual file system (VFS)?
12. Define acyclic - graph directory and General graph directory.

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. Explain os services.
14. Explain the message passing system.
15. Explain process scheduling criterias.
16. What is Synchronization hardware?
17. Explain swapping with neat diagram.
18. Explain the structure of a page Table.
19. Explain Demand paging.
20. What are the various layers of file system?
21. Explain SCAN Disk scheduling.

(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)