



QP CODE: 25019784



25019784

Reg No :

Name :

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

Fourth Semester

B.Sc Mathematics Model II Computer Science

Vocational Course - CA4VOT04 - COMPUTER SCIENCE - OPERATING SYSTEM

2017 Admission Onwards

70ADB59C

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. What is time sharing OS?
2. Define clustered and distributed OS.
3. What are operating system services?
4. Define FCFS.
5. What is starvation?
6. What are the methods for handling deadlocks?
7. Define physical and logical address.
8. Define first fit and best fit.
9. Define a directory.
10. What is traverse and rename operations in directory?
11. What are the goal of a protection?
12. Write a notes on threat monitoring.

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. What is the importance of an OS?





14. Explain the different views of an OS.
15. What is a dispatcher? Explain it with its functions.
16. Explain mutual exclusion and circular wait condition in deadlock.
17. Explain hierarchical and hashed page table.
18. Explain segmentation architecture.
19. Explain sequential access, direct access and indexed access in a file.
20. Explain the purpose of encryption method.
21. Explain digital signature.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain any five types of an OS.
23. Explain different types of schedulers.
24. What is a file? Explain the file attributes and file operations.
25. Explain different user authentication methods in detail.

(2×15=30)

