



21102924

QP CODE: 21102924

Reg No : .....

Name : .....

**B.Sc DEGREE (CBCS) EXAMINATIONS, OCTOBER 2021**

**Fourth Semester**

B.Sc Mathematics Model II Computer Science

**Vocational Course - CA4VOT04 - COMPUTER SCIENCE - OPERATING SYSTEM**

2019 Admission only

DD85FCAA

Time: 3 Hours

Max. Marks : 80

**Part A**

*Answer any **ten** questions.*

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

1. Why do you need an OS?
2. What are the different views of an OS?
3. Define clustered and distributed OS.
4. What is a dispatcher?
5. Define aging and starvation/
6. What are the ways that the OS can use resources?
7. Define first fit and best fit.
8. What is a page table?
9. Define a directory.
10. What is create and list operations in directory?
11. What are the advantages of using encryption?
12. Define cryptography.

(10×2=20)

**Part B**

*Answer any **six** questions.*

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



13. Explain real time and sensor node OS.
14. Briefly Explain the major operating system services.
15. Explain storage hierarchy in computer operation.
16. What is inter-process communication and message passing?
17. Explain address binding.
18. Explain segmentation architecture.
19. Explain different file access methods.
20. Explain the domain of protection.
21. Explain system threats.

(6×5=30)

**Part C**

*Answer any **two** questions.*

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

22. Explain types of operating systems in detail.
23. Explain bankers algorithms.
24. What is a file? Explain the file attributes and file operations.
25. Explain different user authentication methods in detail.

(2×15=30)