QP CODE: 23123947

B.Sc DEGREE (CBCS) REGULAR EXAMINATIONS, MAY 2023

Fourth Semester

B.Sc Mathematics Model II Computer Science

VOCATIONAL COURSE - CA4VOT04 - COMPUTER SCIENCE - OPERATING SYSTEM

2021 Admission Only

966399BB

Time: 3 Hours   Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. What are the functions of OS?

2. Mention different views related to OS.

3. What is clustered OS?

4. What is a process?

5. What is a scheduler?

6. What is starvation?

7. Define single partition allocation.

8. Define TLB.

9. What is a file structure?

10. What is traverse and rename operations in directory?

11. Write down some features of encryption.

12. Define cryptography.

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. Explain feature of a real time OS.

14. Briefly Explain the major operating system services.

15. Explain FCFS and shortest job first in detail.

16. Explain deadlock with its conditions.

17. What is dynamic loading and dynamic linking?

18. Explain segmentation with paging.

19. Explain acyclic directory and tree structured directory.

20. Explain the goal and principle of protection.

21. Explain program threats and 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. With the help of resource allocation graph explain deadlocks.

24. What is a file? Explain the file attributes and file operations.

25. Explain different user authentication methods in detail.

(2×15=30)