B.Sc DEGREE (CBCS) REGULAR EXAMINATIONS, APRIL 2024

Fourth Semester

B.Sc Mathematics Model II Computer Science

Vocational Course - CA4VOT04 - COMPUTER SCIENCE - OPERATING SYSTEM

2017 Admission Onwards

EDB563F9

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. What are the different views of an OS?

2. Define a real time OS.

3. Define the various services of an OS.

4. Define an interrrupt.

5. What is aging?

6. What is claim edge in resource allocation graph?

7. Define an input queue.

8. Define best fit and worst fit.

9. What is sequential access of a file?

10. What is the structure of a typical file systems?

11. Define encryption.

12. Define trap door

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. Explain the features of batch OS.

14. Explain personal computer OS and distributed OS.

15. What is inter-process communication and message passing?

16. Explain CPU scheduling.

17. Explain the structure of a page table.

18. Explain logical views of segmentation.

19. What is a directory? Explain the logical structure of a directory.

20. Explain the difference between artifact based authentication and password.

21. Write a note on threat monitoring.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain Operating systems with its functions.

23. Explain priority scheduling, FCFS and shortest job first Algorithms with example.

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

25. What is protection? Explain it with goal, principle and access matrix implementations.

(2×15=30)