23127028

QP CODE: 23127028

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, OCTOBER 2023

Third Semester

B.Sc Physics Model II Computer Applications

VOCATIONAL COURSE - CA3VOT06 - OPERATING SYSTEM

2017 Admission Onwards

95428698

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Define kernel.
2. What is time sharing operating system?
3. What do you mean by process state transition?
4. When can we say that a process is in waiting state?
5. What is FCFS ?
6. What is starvation?
7. Write a short note on Priority Non Preemptive (P-NP) algorithm .
8. Define SRTF Strategy.
9. How the Memory Management isuseful ?
10. What is paging?
11. What is the meaning of Deadlock?
12. Explain resource allocation graph.

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Write short note on Batch Operating System.

14. Explain various operating system services.

15. Write a short note on Process Scheduling.

16. What is a Job Queue?

17. What is priority scheduling? Explain pre-emptive and non pre-emptive versions of the same.

18. Explain round robin scheduling.

19. What are the different strategies using in fixed memory partition?

20. Briefly explain partition selection algorithms.

21. What is swapping? Explain.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. List various functions performed by an operating system.

23. Explain the main steps to be performed by a dispatcher to perform its execution.

24. Discuss on the terms (i) Throughput (ii) Trunaround Time.

25. Narrate file structures and file access methods.

(2×10=20)