23104221

QP CODE: 23104221

Reg No : .....

Name : .....

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

Third Semester

B.Sc Physics Model II Computer Applications

VOCATIONAL COURSE - CA3VOT06 - OPERATING SYSTEM

2017 Admission Onwards

AF27995A

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What do you mean by System View of an Operating System.?
2. In what manner does jobs are executed in Batch Operating System?
3. What is Process ?
4. What do you mean by scheduling?
5. What is dispatcher?
6. What is a Dispatcher?
7. What is FCFS ?
8. What is starvation?
9. What are the different memory allocation strategies?
10. What is deadlock?
11. Explain resource allocation graph.
12. Write a note on different file access methods.

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Describe the different views of an operating system.
14. Compare multiprocessor O and personal computer OS.
15. Explain the fields present in a Process Control Block.
16. Explain the role played by the priority in a process scheduling.
17. Write s short on Shortest remaining time first.
18. Consider three processes P1, P2, and P3 with same arrival time at t=0 . Their response time is shown in the following table. Assuming that the time slice is 4 ms. How will these processes be scheduled according to Round robin scheduling ? Compute average waiting time and average turnaround time.
19. What is static binding?.Explain.
20. Briefly explain partition selection algorithms.
21. Differentiate between paging and segmentation.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Describe the various Operating system services.
23. Discuss on the terms (i) Throughput (ii) Trunaround Time.
24. What is pre-emptive scheduling? Explain the different pre-emptive scheduling algorithm with respective Gantt charts.
25. Explain various page replacement algorithms.

(2×10=20)