22100546

QP CODE: 22100546

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, APRIL 2022

Third Semester

B.Sc Physics Model II Computer Applications

VOCATIONAL COURSE - CA3VOT06 - OPERATING SYSTEM

2017 Admission Onwards

EF9D4413

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What do you mean by multiprogramming?
2. Distinguish between hard real time systems and soft real time systems.
3. What is Program Counter?
4. What is a blocked state of a process?
5. Define Input Queue.
6. Write the concept of Dispatcher.
7. Write a short note on Priority Non Preemptive (P-NP) algorithm .
8. What is Shortest Remaining Time First (SRTF) scheduling?
9. How the Memory Management isuseful ?
10. What are different conditions that cause a deadlock to occur?
11. Explain resource allocation graph.
12. What are the different attributes of a file?

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Differentiate between hard real-time systems and soft real-time systems?
14. Explain different type of OS.
15. Describe various process scheduling queues.
16. What are the advantages and disadvantages of SJF scheduling algorithm?
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. Differentiate between paging and segmentation.
21. Explain process state with diagram.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Describe the various Operating system services.
23. Explain the different types of Scheduling Algorithms.
24. Explain FCFS scheduling with example.
25. Describe Dynamic Storage allocation problems..

(2×10=20)