QP CODE: 24026925

24026925

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, OCTOBER 2024

Third Semester

B.Sc Physics Model II Computer Applications

VOCATIONAL COURSE - CA3VOT06 - OPERATING SYSTEM

2017 Admission Onwards

B4F27A2B

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What are Mobile Operating Systems?
2. What are the three different forms of user interfaces?
3. What do you mean by process state transition?
4. What do you mean by Process State Transition?
5. What is a Dispatcher?
6. What is Shortest Job First (SJF) scheduling algorithm?
7. What is starvation?
8. Define SRTF Strategy.
9. Explain worst fit.
10. What is internal fragmentation?
11. What are different conditions that cause a deadlock to occur?
12. Explain resource allocation graph.

(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. Compare multiprocessor OS and personal computer OS.
15. Explain different types of schedulers.
16. What is the meaning of Scheduling Criteria?
17. Explain the role played by the priority in a process scheduling.
18. Explain round robin scheduling.
19. Distinguish between physical address and logical address.
20. What are the different strategies using in fixed memory partition?
21. What is virtual memory? Explain.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain the term Operating system. Briefly explain the main functions of an operating system.
23. Explain the different types of Scheduling Algorithms.
24. What is pre-emptive scheduling? Explain the different pre-emptive scheduling algorithm with respective Gantt charts.
25. Narrate file structures and file access methods.

(2×10=20)