QP CODE: 19102046

19102046

Reg No : .....

Name : .....

B.Sc. DEGREE (CBCS) EXAMINATION, OCTOBER 2019

Third Semester

B.Sc Physics Model II Computer Applications

VOCATIONAL COURSE - CA3VOT06 - OPERATING SYSTEM

2017 Admission Onwards

A7A96DA9

Maximum Marks: 60 Time: 3 Hours

Part A

Answer any ten questions.

Each question carries 1 mark.

1. What is a resource allocator?
2. Write a note on hard real operating system and soft real operating system
3. What is a process?
4. Narrate the concept of Process scheduling queues.
5. Explain the concept of a Ready Queue.
6. Define non-Preemptive Scheduling.
7. What is Shortest Job First (SJF) scheduling algorithm?
8. What is starvation?
9. What are the different memory allocation strategies?
10. What is compaction?
11. What is internal fragmentation?
12. What is deadlock?

(10×1=10)

Part B

Answer any six questions.

Each question carries 5 marks.

13. Explain the Types of operating systems

14. Explain various operating system services.

15. Briefly explain the Process States with neat diagram.

16. Which non-preemptive scheduling algorithm suffer from starvation and under What condition?

17. Write s short on Shortest remaining time first

18. Briefly explain RR scheduling algorithm with an example?

19. Write a short note on dynamic address space binding

20. Explain process state with diagram

21. What are file attributes?

(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 main steps to be performed by a dispatcher to perform its execution.

24. Explain priority based scheduling with example.

25. What is dead lock? What are its necessary conditions for it? Explain with the help Resource Allocation Graph.

(2×10=20)