



21101925

QP CODE: 21101925

Reg No :

Name :

BCA DEGREE (CBCS) EXAMINATION, AUGUST 2021

Third Semester

Bachelor of Computer Application

CORE COURSE - CA3CRT02 - OPERATING SYSTEMS

2017 Admission Onwards

F8FE8D62

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What do you mean by Time sharing OS?
2. What is a command interpreter?
3. Explain synchronization.
4. Explain preemptive and non-preemptive scheduling.
5. List out the different types of Scheduling Algorithms.
6. Give the general structure of a process to execute its critical section.
7. What are the necessary conditions for a deadlock?
8. What is compile time address binding ?
9. What is segmentation ?
10. What is meant by page replacement ?
11. What is meant by direct access ?
12. What is meant by grouping?

(10×2=20)

Part B

*Answer any **six** questions.*

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





13. What are the components of a computer system?
14. Write a short note on System calls.
15. Explain process control block with a neat diagram.
16. Explain process creation and process termination.
17. Explain Semaphore.
18. Explain the dining philosophers problem of synchronization.
19. What is a monitor? Briefly explain.
20. Explain the concept of virtual memory.
21. Explain different types of allocation methods.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain
(a) OS Operations (b) OS Services
23. Explain about Process Scheduling.
24. Explain deadlock detection.
25. Explain paging hardware.

(2×15=30)

