



QP CODE: 24026859



24026859

Reg No :

Name :

**BCA DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, OCTOBER 2024**

Third Semester

Bachelor of Computer Applications

CORE COURSE - CA3CRT02 - OPERATING SYSTEMS

2017 Admission Onwards

63FC2059

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. What you mean by process scheduling?
4. What you mean by process termination?
5. Differentiate turn around time and waiting time.
6. How can a process execute its critical section?
7. What is binary Semaphore?
8. What is First fit Strategy?
9. What is segmentation ?
10. What is demand paging ?
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 do you mean by Resource management & Process management?
14. Briefly explain the Services provided by the OS to the User.
15. Explain process control block with a neat diagram.
16. With an example, explain Round Robin scheduling.
17. Discuss about bounded buffer problem of synchronization.
18. Explain resource-allocation graph with an example.
19. What are the methods for deadlock recovery? Explain.
20. Explain optimal page replacement.
21. What is the speciality of a tree structure directory ?

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain types of system calls.
23. Briefly explain Interprocess Communication.
24. Explain different methods for deadlock avoidance.
25. Explain paging hardware.

(2×15=30)

