



**QP CODE: 22100510**

**Reg No** : .....

**Name** : .....

**BCA DEGREE ( CBCS ) REGULAR / REAPPEARANCE EXAMINATIONS,  
APRIL 2022**

**Third Semester**

Bachelor of Computer Applications

**CORE COURSE - CA3CRT02 - OPERATING SYSTEMS**

2017 Admission Onwards

51F4D48C

Time: 3 Hours

Max. Marks : 80

**Part A**

*Answer any **ten** questions.*

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

1. Write about the evolution of OS.
2. What is a command interpreter?
3. Explain process states.
4. What you mean by process termination?
5. Explain CPU scheduler.
6. What are the requirements for critical section?
7. Write the syntax of a monitor.
8. What is address binding?
9. What is segmentation ?
10. Define pagefault.
11. What is meant by counting ?
12. What is meant by disk scheduling ?

(10×2=20)





### Part B

Answer any **six** questions.

Each question carries **5** marks.

13. What do you mean by Job management and Device management?
14. Discuss about OS Operations.
15. Write a note on context switch in detail.
16. Explain the process of message passing in IPC.
17. Discuss about bounded buffer problem of synchronization.
18. Discuss about the necessary conditions for a deadlock.
19. Explain resource-allocation graph algorithm for deadlock avoidance.
20. Explain optimal page replacement.
21. Explain access methods.

(6×5=30)

### Part C

Answer any **two** questions.

Each question carries **15** marks.

22. Explain types of system calls.
23. Briefly explain the types of Scheduling Algorithm with example.
24. What is deadlock detection and recovery? Explain.
25. Explain paging hardware .

(2×15=30)

