



23104185

**QP CODE: 23104185**

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

**Name** : .....

**BCA DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE  
EXAMINATIONS, JANUARY 2023**

**Third Semester**

Bachelor of Computer Applications

**CORE COURSE - CA3CRT02 - OPERATING SYSTEMS**

2017 Admission Onwards

0CA2A982

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 the use of mode bit?
3. What are job scheduler and cpu scheduler?
4. What you mean by process termination?
5. Explain message passing system.
6. What are the requirements for critical section?
7. What are the basic operations of Semaphore?
8. What is Best fit Strategy?
9. What is segmentation ?
10. What is demand paging ?
11. What is meant by grouping?
12. What is disk scheduling ?

(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 user operating system interface.
15. Explain about multiple processor scheduling.
16. Explain Multilevel feedback queue scheduling.
17. Explain the dining philosophers problem of synchronization.
18. What is a monitor? Briefly explain.
19. Explain resource-allocation graph with an example.
20. Explain basic page replacement with the help of a diagram.
21. Explain contiguous allocation.

(6×5=30)

**Part C**

*Answer any **two** questions.*

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

22. Explain types of system calls.
23. Explain about Process Scheduling.
24. Explain different methods for deadlock avoidance.
25. Explain paging hardware.

(2×15=30)

