QP CODE: 19102010

19102010

Reg No : .....

Name : .....

BCA DEGREE (CBCS) EXAMINATION, OCTOBER 2019

Third Semester

Bachelor of Computer Application

CORE COURSE - CA3CRT02 - OPERATING SYSTEMS

2017 Admission Onwards

4A939AE3

Maximum Marks: 80 Time: 3 Hours

Part A

*Answer any **ten** questions.*

Each question carries 2 marks.

1. What are the two fundamental approaches to interface with the OS?
2. List the Device management system calls
3. What is context switching?
4. What you mean by interprocess communication?
5. Differentiate turn around time and waiting time
6. What is critical section of a process?
7. Write the syntax of a monitor
8. What is Dynamic Linking?
9. What is segmentation ?
10. What is meant by page replacement ?
11. What is meant by sequential access ?
12. What is meant by disk scheduling ?

(10×2=20)

Part B

*Answer any **six** questions.*

Each question carries 5 marks.

13. Briefly explain about the evolution of OS

14. Discuss about OS Operations

15. With a neat diagram explain process states

16. Explain process creation and process termination

17. Define Semaphore. How Semaphore is implemented?

18. Explain resource-allocation graph with an example

19. How deadlock can be prevented?

20. Explain the concept of virtual memory

21. Explain file system structure with the help of a diagram

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain the functions of OS

23. Briefly explain the types of Scheduling Algorithm with example

24. What are the different classic problems of synchronization? Explain

25. Explain paging hardware

(2×15=30)