

QP CODE: 21100450



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BCA DEGREE (CBCS)EXAMINATION, MARCH 2021

Third Semester

Bachelor of Computer Applications

Core Course - CA3CRT02 - OPERATING SYSTEMS

2017 Admission Onwards A8B97639

Time: 3 Hours Max. Marks: 80

Part A

Answer any ten questions.

Each question carries 2 marks.

- 1. List the functions of OS.
- 2. What do you mean by Dual-mode operation.
- 3. List the stages of process states.
- 4. Explain the term buffering.
- 5. What you mean by CPU utilization?
- 6. What is critical section problem?
- 7. What is a deadlock?
- 8. What is limit register?
- 9. What is the speciality of virtual memory?
- 10. What is meant by page replacement?
- 11. List file operations.
- 12. What is disk scheduling?

 $(10 \times 2 = 20)$

Part B

Answer any six questions.

Each question carries 5 marks.

13. Write a short note on OS Structure.



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- 14. Write a short note on user operating system interface.
- 15. Explain process creation and process termination.
- 16. With an example, explain Round Robin scheduling.
- 17. Explain Semaphore.
- 18. Explain the Readers-Writers problem of synchronization.
- 19. How deadlock can be prevented?
- 20. Explain paging.
- 21. Explain file system structure with the help of a diagram.

 $(6 \times 5 = 30)$

Part C

Answer any two questions.

Each question carries 15 marks.

- 22. Explain types of system calls.
- 23. Explain about Process Scheduling.
- 24. What is deadlock detection and recovery? Explain.
- 25. Explain segmentation.

 $(2 \times 15 = 30)$

