

QP CODE: 18103310



Reg No : .....

Name : .....

**BCA DEGREE (CBCS) EXAMINATION, NOVEMBER 2018**

**Third Semester**

Bachelor of Computer Application

CORE COURSE - CA3CRT02 - OPERATING SYSTEMS

2017 Admission Onwards

0084D838

**Maximum Marks: 80**

**Time: 3 Hours**

**Part A**

Answer any **ten** questions.

Each question carries **2** marks.

1. What do you mean by multi-programming?
2. Explain OS structure
3. Explain the term Process
4. Explain long term and short term scheduler
5. What you mean by process termination?
6. What is counting Semaphore?
7. Define safe state
8. What is physical address
9. What is the performance of demand paging ?
10. What is meant by page replacement ?
11. Define file
12. What is meant by counting ?

(10×2=20)

**Part B**

Answer any **six** questions.

Each question carries **5** marks.

13. Briefly explain the Services provided by the OS to the User
14. Write a short note user operating system interface
15. Write a note on scheduling criteria
16. Explain priority queue scheduling with an example





17. What is a monitor? Briefly explain
18. Discuss about the necessary conditions for a deadlock
19. Discuss about deadlock detection
20. Explain segmentation
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 deadlock prevention in detail
25. Explain paging hardware

(2×15=30)

