

C 1087

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Name.....

Reg. No.....

SIXTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION, MARCH 2021

B.C.A.

BCA 6B 15—OPERATING SYSTEMS

(2014 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

Each question carries 1 mark.

1. The number of completed jobs per unit time is known as _____.
2. In scheduling, FCFS stands for _____.
3. Name two types of binding in memory management.
4. An executable prepared to run in one partition may not be able to run in another without being relinked is called _____.
5. Name two types of fragmentation.
6. In paging, PMTLR stands for _____.
7. _____ are code and data written to memory under system or programmer control to reuse memory for a process.
8. When a page is referenced and not found in the main memory, the Operating System faces a _____.
9. _____ is the time required to position the read/write head on the proper track.
10. Name three techniques for device management.

(10 × 1 = 10 marks)

Part B

Answer all questions.

Each question carries 2 marks.

11. What is an operating system ?
12. What do you mean by multi-user operating system ?

Turn over

13. Name the different states of a process.
14. What is priority aging ?
15. What do you mean by non-contiguous memory management ?

(5 × 2 = 10 marks)

Part C

*Answer any five questions.
Each question carries 4 marks.*

16. Differentiate non-pre-emptive and pre-emptive scheduling.
17. What are the consequences of deadlock ?
18. What do you mean by circular-wait in a deadlock ?
19. Explain deadlock detection.
20. Explain the file attributes.
21. Write short notes on file protection.
22. Explain free space management.
23. What is sector slipping in bad blocks ?

(5 × 4 = 20 marks)

Part D

*Answer any five questions.
Each question carries 8 marks.*

24. Explain multiprogramming operating system.
25. Explain the concept of distributed operating system.
26. Explain the working of short-term scheduler.
27. Explain Round Robin (RR) scheduling.
28. Explain Resource Allocation Graph for a deadlock.
29. Explain the basic steps in servicing a page fault.
30. Explain various file organizations.
31. Explain Shortest Seek Time First Scheduling in disk scheduling.

(5 × 8 = 40 marks)

