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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

Anguar all quartions

	Answer an 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.
LO.	Name three techniques for device management.
	$(10 \times 1 = 10 \text{ marks})$

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?

 $(5 \times 2 = 10 \text{ marks})$

Part C

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

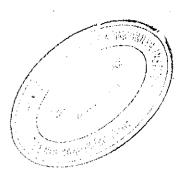
- 16. Differentiate non-pre-emptive and pre-emptive scheduling.
- 17. What are the consequences of deadlock?
- 18. What do you mean by circular-wait in a deadlock?
- 19. Explain deadlock detection.
- 20. Explain the file attributes.
- 21. Write short notes on file protection.
- 22. Explain free space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

 $(5 \times 4 = 20 \text{ marks})$

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.



 $(5 \times 8 = 40 \text{ marks})$