



K20U 0948

Reg. No. :

Name :

IV Semester B.C.A. Degree (CBCSS-Reg./Sup./Imp.)
Examination, April 2020
(2014 Admn. Onwards)
Core Course
4B08 BCA : OPERATING SYSTEM

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One word answer.** (8×0.5=4)
- a) _____ refers to a situation in which a process is ready to execute but is continuously denied access to a processor in deference to other processes.
 - b) _____ scheduling policy is most suitable for time shared operating systems.
 - c) _____ technique can be used to resolve conflicts, such as competition for resources and to synchronize processes so that they can cooperate.
 - d) The number of processes completed per unit time is known as _____
 - e) Fixed partition memory management largely face the problem of _____
 - f) Degree of multiprogramming is controlled by _____ scheduler.
 - g) Physical memory is broken into fixed size blocks called _____
 - h) _____ UNIX command is used to list files from the directory.

SECTION – B

Write short notes on **any seven** of the following questions. (7×2=14)

- 2. What is PCB ?
- 3. What is multiprogramming ?

P.T.O.



4. What is meant by physical address ?
5. What is demand paging ?
6. Define thread.
7. What is Belady's Anomaly ?
8. When is a system in safe state ?
9. What is page fault ?
10. What is shell in UNIX ?
11. Which command is used to 1) remove a directory 2) remove a file ?

SECTION – C

Answer **any four** of the following questions. (4×3=12)

12. What are different types of operating systems ? Explain in detail.
13. Define process. What are various states of a process ?
14. Differentiate long term and short term scheduler.
15. Discuss the concept of demand paging.
16. Write short note on I/O traffic controller.
17. What are the file types available in Unix ?

SECTION – D

Write an essay on **any two** of the following questions. (2×5=10)

18. What is deadlock ? What are the necessary conditions for the occurrence of a deadlock ?
 19. Explain about nonpreemptive process scheduling policies.
 20. Discuss paged memory management scheme in detail.
 21. Explain the hierarchical model of a file system.
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