

BCA-13
June - Examination 2019
BCA Pt. III Examination
Operating System II
Paper - BCA-13

Time : 3 Hours]

[Max. Marks :- 70

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A

7 × 2 = 14

(Very Short Answer Questions)

Note: Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 words. Each question carries 2 marks.

- 1) (i) What is "Root" Account?
- (ii) What do you mean by Fault Tolerance?
- (iii) What is the use of Kernel in LINUX?
- (iv) How Real time system is differ then other?
- (v) List down the desirable issues in IPC by Message Passing & Synchronization?
- (vi) List four applications of multimedia?
- (vii) What do you mean by DCE Cloud?

Section - B**4 × 7 = 28**

(Short Answer Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 7 marks.

- 2) What is Shell? Explain difference between BASH and CSH.
- 3) Write script to determine whether given file exist or not, file name is supplied as command line argument, also check for sufficient number of command line argument.
- 4) Explain the advantages of Distributed System over Centralized System in brief.
- 5) Explain the difference between Password File & Shadow Password File with example.
- 6) What is daemon? Enlist the NFS and NIS daemons with their brief functionality.
- 7) Explain the NFS Architecture with neat diagram.
- 8) Write short note on Distributed Memory Management.
- 9) Give a brief comparison of NTFS and FAT.

Section - C**2 × 14 = 28**

(Long Answer Questions)

Note: Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 14 marks.

- 10) Considering an ordered disk queue with respects evolving tracks 98, 183, 37, 122,14, 124, 65 and 67. If the read/write head is initially at track 53. What is the total distance that the disk arm moves to satisfy all the pending requests for FCFS, SSTF?
 - 11) Explain the file structure of Linux in detail.
 - 12) What is RPC? Explain the working of RPC in detail.
 - 13) How users are manage in Linux? Explain the complete process with suitable example.
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