

7. Describe the contents of */etc/passwd* and */etc/shadow* file.
8. Suppose the order of request is (82, 170, 43, 140, 24, 16, 190) and current position of Read/Write head is : 50. Find the total seek time using (A) SCAN (B) CSCAN disk scheduling algorithms.
9. Distinguish between FAT and NTFS file system.

BCA-13

June – Examination 2022

B.C.A. (Part III) Examination

Operating System-II

Paper : BCA-13

Time : 1½ Hours]

[Maximum Marks : 70

Note :- The question paper is divided into two Sections A and B. Write answers as per the given instructions.

Section-A

4×3½=14

(Very Short Answer Type Questions)

Note :- Answer any *four* questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries 3½ marks.

Section-B

4×14=56

(Short Answer Type Questions)

Note :- Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 14 marks.

1. (i) What is the use of the shell ? Give any *two* names of shell.
- (ii) NFS servers are stateless by design. What does it mean ?
- (iii) What is Real Time System ?
- (iv) Discuss advantages and disadvantages of Linux.
- (v) What are the different permissions on a file or directory in Linux ? Give an example of each.
- (vi) What are the differences between a local call and a remote call ? Give an example.
- (vii) List seven layers of OSI Model.
- (viii) What are stub and skeleton and why are they needed in remote procedure calls ?

2. What do you mean by Distributed Operating System ? Also explain in brief various issues in designing a Distributed Operating System.
3. How failures are handled in Interprocess Communication (IPC) ? Describe with suitable examples.
4. What are the desirable characteristics of RTOS ? Explain in brief the implementation components of RTOS.
5. Write a shell script to swap two variables. Also give an example with an example.
6. Explain the system design issues of Distributed File System with suitable examples.