BCA–13

December – Examination 2021

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.

1. (i) How the time is set and shown in Linux ?

    (ii) Give advantages of distributed memory management.

(iii) Differentiate between su, sudo and gksu.

(iv) What is the use of sticky bit ?

(v) State the features of good distributed file system.

(vi) What is kernel in Linux Operating System ?

(vii) What do you understand by Shell Parameters ?

(viii) Explain "call by reference" *vs.* "call by value".

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.

2. What do you understand by NFS and NIS ? Explain in brief about these services.

3. Explain NTFS (New Technology File System) used in Windows OS. Name the file system used in Linux.

4. What is Compression ? Explain what do you mean by image compression and video compression.

5. Explain chmod command with syntax and example. A file has got protection 744 (octal). What protections does it really have ?

6. Explain the RPC (Remote Procedure Call) model with suitable diagram.

7. What are the desirable characteristics of RTOS ?

8. Define Real Time System. Explain the different class of Real Time System.

9. Suppose that a disk drive has 500 cylinders, numbered 0 to 499. The drive is currently serving a request at cylinder 123 and the previous request was at cylinder 105. The queue of pending requests, in FIFO order, is :

86, 1470, 913, 1774, 948, 1509, 1022, 1750, 130.