

**Section–C**

**2×14=28**

**(Long Answer Type Questions)**

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

10. Considering an ordered disk queue with respects evolving tracks 86, 1470, 913, 1774, 948, 1509, 1022, 1750, 130. If the read/write head is initially at track 123, what is the total distance that the disk arm moves to satisfy all the pending requests for FCFS and SCAN ?
11. Explain the different models of Distributed Computing. What are the security issues related to a system with distributed approach ?
12. Explain Linux/Unix system architecture with its basic features.
13. Explain various System Design Issues related to Distributed File System.

*BCA–13/4*

( 4 )

**TC–401**

**BCA–13**

**December – Examination 2023**

**B.C.A. (Part III) Examination**

**Operating System–II**

**Paper : BCA-13**

*Time : 3 Hours ]*

*[ Maximum Marks : 70*

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

**Section–A**

**7×2=14**

**(Very Short Answer Type Questions)**

*Note* :- Answer all 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 2 marks.

1. (i) What do you mean by TCP/IP sockets ?

*BCA–13/4*

( 1 )

**TC–401**

*Turn Over*

- (ii) What is the content of '/root' directory ?
- (iii) What do you mean by 'Scalability' ?
- (iv) List *four* applications of multimedia.
- (v) What is the role of Buffering ?
- (vi) List any *four* features of a Good Message Passing System.
- (vii) List any *four* differences between Distributed Systems and Parallel Computing.

**Section-B**

**4×7=28**

**(Short Answer Type Questions)**

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

- 2. Explain the features of Concurrency Control in Distributed Computing Environment.

- 3. What do you mean by Distributed Computing ? Also, explain in brief various distributed Computing Models.
- 4. Write short note on Remote Procedure Calls.
- 5. Define Real Time System. Explain the different classes of Real Time System.
- 6. Explain chmod command with syntax and example. A file has got protection 744 (octal), what protection does it really have ?
- 7. What do you mean by buffering ? Explain various strategies of buffering.
- 8. Explain the Linux commands which are used to change the permission in detail with suitable examples.
- 9. What is daemon ? Enlist the NFS and NIS daemons with their brief functionality.