

BCA-15

December – Examination 2023

BCA (Part III) Examination

FUNDAMENTAL OF COMPUTER NETWORKS

Paper : BCA-15

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) Define Network.
- (ii) What is WAN ?

- (iii) Define Routing.
- (iv) Define Client.
- (v) Define Channel.
- (vi) Define Baud.
- (vii) Define Firewall.

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. Discuss application of network in Bank.
3. Explain OSI Model.
4. Discuss advantages of Internet.
5. Write short note on Network Security.
6. Differentiate Analog and Digital Transmission.
7. Discuss advantages and disadvantages of Tree Topology.
8. Discuss Transmission Impairments.
9. Explain Network File System.

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. Explain guided and unguided transmission media.

11. Explain the following :

- (i) Frequency Division Multiplexing (FDM)
- (ii) Time Division Multiplexing (TDM)

12. Discuss the advantages of Computer Networks.

13. Explain Asynchronous, Synchronous and Isochronous Communication.