

BCA-15

December – Examination 2022

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 Computer Network.
- (ii) What is WWW ?

- (iii) Define Topology.
- (iv) Define Server.
- (v) Define Protocol.
- (vi) Define Bandwidth.
- (vii) Give the full form of PAN.

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 Simplex, Half Duplex and Full Duplex Transmission.
3. Differentiate OSI and TCP/IP Model.
4. Discuss why Layering structure is used in OSI Model.
5. Explain basic components of Network.
6. Write a short note on Network Security.
7. Differentiate LAN and WAN.
8. Discuss Ring and Star Topology.
9. Explain the various Routing Techniques.

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 OSI Model.
11. Explain the various Transmission Media.
12. Discuss applications of Computer Network.
13. Define internet and discuss advantages and disadvantages of internet.