

BCA-15

June – Examination 2022

B.C.A. (Part III) Examination

Fundamental of Computer Networks

Paper : BCA-15

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) What is IPV.4 address ?
- (ii) What is a coaxial cable ?
- (iii) Define NT2.
- (iv) Define Mesh Topology.
- (v) What is Optical Fiber ?
- (vi) Define CSMA/CD.
- (vii) What is a Virtual Circuit ?
- (viii) What is Datagram ?

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. Explain ISO-OSI Reference Model with a neat sketch diagram.
3. Explain the following terms :
 - (i) Router
 - (ii) Gateway
 - (iii) Half-duplex
 - (iv) Phishing attack

4. What is circuit switching and packet switching ? Explain with a diagram.
5. Discuss TCP/IP protocol suite.
6. Discuss the applications and goals of the computer networks.
7. What is sliding window protocol and selective repeat ? Explain with example.
8. Explain the following :
 - (i) Framing
 - (ii) CRC
 - (iii) Hamming Code
 - (iv) Ethernet
9. Explain the differences between TCP and UDP along with UDP header.