

*" Do not write anything on question-paper except Roll Number, otherwise it shall be deemed as an act of indulging in unfair means and action shall be taken as per rules."*

Roll No. ....

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

**1733**

**Compt. Netw.**

**B.C.A. Part-III EXAMINATION - 2022**

**Paper - III**

**BCA 303 - Computer Networks**

**Time Allowed : Three Hours**

**Maximum Marks : 80**

**Note :** 1. Question No. 1 is Compulsory. Attempt any four from the remaining questions.

2. All questions carry equal marks.

1. (i) Define Network Security
- (ii) CRC
- (iii) CDMA

- (iv) IEEE 802.4 and IEEE 802.5
  - (v) Difference between IP address and Mac address.
  - (vi) Difference between broadband and baseband.
  - (vii) What is Protocol?
  - (viii) Data link layer and physical layer.
2. (a) What do you mean by Network Topology?
- (b) Explain Ring, Bus and STAR topologies with advantages and disadvantages?
3. What is the OSI Model? Explain the different layers of the OSI model with example?
4. (a) What do you mean by TCP and UDP?
- (b) Describe HUB, Switch, Router and gateway.
5. (a) Explain error in data transmission.
- (b) Explain Hamming Code method with example.
6. (a) Difference between circuit switching and packet switching.
- (b) What do you mean by DNS and Proxy server?

7. Define data transmission mode with suitable example?

8. (a) Classes of Network

(b) NIC

(c) SLIP Protocol

(d) SMTP Protocol.

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