



RAN - 2011000105030001

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**T.Y.B.C.A. (Sem-V) Examination**

**January - 2021**

**503 : Network Technologies**

**[ Total Marks: 70**

**સૂચના : / Instructions**

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.

Fill up strictly the details of signs on your answer book

Name of the Examination:

T.Y.B.C.A. (Sem-V)

Name of the Subject :

503 : Network Technologies

Subject Code No.: 2011000105030001

Seat No.:

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Student's Signature

**Q-1 Answer any Five.**

**[10]**

- 1) Define Data Communication.
- 2) Define term Nyquist Bit Rate.
- 3) Give difference between Hub and Switch.
- 4) What is Flow Control?
- 5) What is Cipher text?
- 6) Define term Information Exchange.
- 7) Why do we require a twist in twisted pair cable?
- 8) Define dedicated server.

**Q-2 Answer the following questions. (Any Four)**

**[24]**

- 1) Explain Hardware and Software resource sharing.
- 2) Explain the concept of Symmetric and Asymmetric key in detail.
- 3) Explain different features of peer based system.
- 4) Explain Optical Fibre cable.
- 5) Explain Star and Bus topology.
- 6) Explain Bridge and Router.

**Q-3**      **Answer the following questions in detail. (Any Three)**      **[24]**

- 1) What is IP Header? Explain different classes of IP address. Also explain the default mask for each category of IP classes.
- 2) What is Network? Explain Advantages, Disadvantages and Needs of Network.
- 3) Explain OSI Reference model.
- 4) Explain Transmission Media. Explain in detail Unguided Media with its applications, advantages and disadvantages.
- 5) Explain Internet Transport Protocols and also explain TCP with its features and services.

**Q-4      Attempt any Two.      [12]**

- 1) Firewall
- 2) UDP, MAC address
- 3) Digital Certificate