

# Question Paper Code : 3020

B.A./B.Sc. (Part-I) Examination, 2017

( New Syllabus )

## COMPUTER APPLICATION

[ Second Paper ]

( Data Communication )

Time : Three Hours] [Maximum Marks : 50

**Note :** Answer **five** question in all. Question **No.1** is **compulsory**. Besides this, attempt **one** question from each unit.

1. Write short notes on the following : [2x10=20]
- (a) What is protocol ?
  - (b) Which layer is responsible for the decryption and encryption of data ?
  - (c) Which topology can be used in TV technology?
  - (d) Differentiate between WWW and Internet.
  - (e) Explain different mode of data transmission between two devices.

- (f) What are the advantage of computer network?
- (g) Differentiate intranet and extranet.
- (h) Differentiate between network layer and transport layer.
- (i) Differentiate between twisted pair cable and coaxial cable.
- (j) What are the advantages and disadvantages of fiber optic cables ?

#### UNIT - I

- 2. What are the advantages and disadvantages of different network topologies ? [7½]
- 3. What are the different categories of a network ? Explain briefly. [7½]

#### UNIT - II

- 4. Explain pulse code modulation (PCM) and delta modulation (DM). [7½]
- 5. Explain circuit switching and packet switching along with advantages and disadvantages. [7½]

#### UNIT - III

- 6. Compare OSI model with TCP/IP model. Also compare the functionalities of network layer with transport layer. [7½]
- 7. What is multiplexing ? Explain the different multiplexing techniques. [7½]

#### UNIT - IV

- 8. What are the services provided by ISDN ? Also describe the type of channels provided by ISDN along with their purpose. [7½]
- 9. Write short notes : [7½]
  - (a) ATM
  - (b) Wireless LAN-IEEE 802.11

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