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B.Tech. VIth Semester (CSE) (New Scheme)

Examination, 2023

Computer Network

Paper - CS - 601

Computer Network

Time : 3 Hours]

[Maximum Marks : 60

Note : - Q. 1 is compulsory. Internal Choice is given from Q. 2 to Q. 6.

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(1)

P.T.O.

1. (a) Give a brief description of the following terms : $2 \times 5 = 10$

- (i) Sampling
- (ii) Bluetooth
- (iii) Intranet
- (iv) HDLC
- (v) Encryption

2. (a) What are the various applications of computer network. 5

(b) Differentiate between analog and digital signals. 5

OR

(a) Differentiate between circuit switching and packet switching.

(b) What is meant by Data Communication and explain its characteristics?

3. (a) List the major advantages with the layered approach to protocols. 5

(b) Differentiate between Analog and Digital transmission. 5

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(2)

OR

(a) Differentiate between OSI and TCP/IP model.

(b) What are the different transmission media.

4. (a) Explain sliding window protocol and its mechanism? 5

(b) What are the different modes of transmission of data? 5

OR

(a) What do you mean by ALOHA? What are its types.

(b) What are the two types of sliding-window ARQ error control? Explain any one of them.

5. (a) Explain with an example the Bellman ford algorithm. 5

(b) What do you understand by Internetworking. 5

OR

(a) Explain various Routing strategies.

(b) Explain the policies and algorithms used for prevention of congestion.

6. (a) What is encryption and decryption? What is its use? 5

(b) Explain various functions of application layer. 5

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(3)

P.T.O.

OR

- (a) Compare TCP and UDP.
- (b) What is socket interface in computer networks?

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(4)

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