Seat No. : 637

NC-101

November-2022

BCA., Sem.-V

CC-303 : Computer Network

Time : 2.30 Hours] **[Max. Marks : 70**

1. Write the following :
   (1) What is Computer Network and Data Communication ? Explain characteristics of Data Communication. 7
   (2) Explain Amplitude Shift Keying and Frequency Shift Keying Modulation Technique. 7

   OR

   (1) Explain Parallel and Serial Communication. 7
   (2) Explain Simplex, Half Duplex and Full Duplex. 7

2. Write the following :
   (1) What is Multiplexing ? Explain WDM. 7
   (2) Write a note on Go-Back-N method. 7

   OR

   (1) Explain asynchronous TDM techniques. 7
   (2) Write a note on Sliding Window error recovery method. 7

3. Write the following :
   (1) What is topology ? Explain Star, Bus and Ring Topologies. 7
   (2) Explain Satellite Communication. 7

   OR

   (1) What is Transmission Media ? Explain Guided transmission media with its types. 7
   (2) What is Switching ? Explain Circuit Switching. 7

Write the following :
(1) Explain OSI Model. 7
(2) What is Ethernet ? Explain properties of Ethernet. 7

OR

(1) Explain FDDI with its properties and Self-Healing Mechanism. 7
(2) Write a note on Bridge and Router. 7

3. Answer the following : (Any Seven) 14

(1) _____ defines the structure or format of data.

(A) Syntax (B) Semantics

(C) Standards (D) None of the above

(2) BPS stands for

(A) Bytes Per Second (B) Bits Per Second

(C) Bandwidth Per Second (D) Bitrate Per Second

(3) The time taken by the signal for the completion of one cycle is called

(A) Amplitude (B) Frequency

(C) Period (D) Phase

(4) A checksum also called

(A) Fixsum (B) Functionsum

(C) Doublesum (D) Hashsum

(5) CRC stands for

(A) Cyclic Redundancy Check (B) Cyclic Reverse Check

(C) Cyclic Repeater Check (D) Cyclic Reserve Check

(6) LED stands for

(A) Light Emitting Device (B) Light Emitting Diode

(C) Light Emitting Decode (D) Light Emitting Dior

(7) Wi-Fi stands for

(A) Wireless Frequency (B) Wireless Force

(C) Wireless Fidelity (D) Wireless Feasibility

(8) Two frequency bands are used for signals from the earth to the satellite. (T/F)

(9) Long messages are broken into smaller units called Circuit. (T/F)

(10) A path is a sequence of links located between nodes called switches. (T/F)

(11) A router cannot forward packets across different network types. (T/F)

(12) A repeater, also called a regenerator. (T/F)
