

Seat No. : \_\_\_\_\_

**OC-105**

October-2019

**B.C.A., Sem.-V**

**CC-303 : Computer Networking  
(New Course)**

**Time : 2.30 Hours]**

**[Max. Marks : 70**

1. (A) Answer the Questions in detail :

- (a) Explain Data Communication and their characteristics. 7
- (b) List the Different Types of Transmissions. Explain ASK and PSK in detail. 7

**OR**

- (a) Explain PCM in detail.
- (b) Explain Simplex, Half Duplex and Full Duplex communication.

(B) Answers the following question (any 4) : 4

- (1) Define Term Frequency.
- (2) What is Protocol ?
- (3) \_\_\_\_\_ Modulation Technique is ignoring Amplitude and phase of Signal to convert the digital to analog signals.
- (4) \_\_\_\_\_ Device is use to regenerate Digital signal.
- (5) FSK is highly affected by noise. (True/False).
- (6) Full form of QPSK.

2. (A) Answer the Questions in detail :

- (a) Which protocol is use when window size is fixed for transferring data ? Explain in brief. 7
- (b) Explain Different categories of error. 7

**OR**

- (a) List the different types of Error Detection Method. Explain Parity Check Method with example.
- (b) 'What is Multiplexing and Demultiplexing ? Which are the different methods ? Explain FDM in detail.

(B) Answers the following question (any 4) : 4

- (1) \_\_\_\_\_ is an intelligent Multiplexing Technique.
- (2) \_\_\_\_\_ is a batter error detection method.

- (3) In single bit error there are more no. of bits are changed. (True/False).
- (4) Full form of LRC.
- (5) \_\_\_\_\_ multiplexing technique is used when transmission medium is Optical Fibre.
- (6) Attenuation is increases strength in signal. (True/False)

3. (A) Answer the Questions in detail :

- (a) List the Different types of Transmission medium. Explain Coaxial and Fibre Optic in detail. 7
- (b) List the Different Types of Topology. Difference between Star and Mesh topology. 7

OR

- (a) List the different types of Switching. Explain Packet and Message Switching.
- (b) Explain Cellular Telephone technique in detail.

(B) Answers the following question (Any 3) :

- (1) In \_\_\_\_\_ communication signal are pass line of sight. 3
- (2) In fibre optic cable \_\_\_\_\_ technique is used to guide light source.
- (3) In Satellite communication \_\_\_\_\_ and \_\_\_\_\_ types of bands are used.
- (4) 'The process of handling a signal from one cell to another cell is called \_\_\_\_\_.'
- (5) Ring Topology is control by central device. (True/False)

4. (A) Answer the Questions in detail :

- (a) What is the use of CSMA/CD ? Explain in detail. 7
- (b) Difference between Bridge and Gateway. 7

OR

- (a) Explain IEE 802.15 and also explain Piconet and Scatternet.
- (b) What is the full form of ISDN ? Explain its Interfaces.

(B) Answers the following question (any 3)

- (1) Full form of OSI. 3
- (2) Full form of CDDI.
- (3) \_\_\_\_\_ Layer is responsible for data transfer in OSI and TCP/IP.
- (4) \_\_\_\_\_ device is used to connect Ethernet and Computer.
- (5) \_\_\_\_\_ Mechanism is used to manage a FDDI network while error occurs.