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SUBJECT CODE NO:- B-2105
FACULTY OF SCIENCE & TECHNOLOGY
B.Sc. T.Y (Sem-VI)
Examination November/December- 2022
Computer Science Paper-CSO-19
(Data Communication & Networking)

[Time: 1:30 Hours]

[Max. Marks: 50]

Please check whether you have got the right question paper.

- N.B
- 1) Attempt all questions.
 - 2) All questions carry equal marks.
- Q. 1
- 1) Explain the advantages and application of computer network. 10
 - 2) What is network topology? Explain star and bus network topology with its advantages and disadvantages. 10
- OR
- 1) What is multiplexing? Explain amplitude shift keying (ASK) and frequency shift keying (FSK) with suitable diagram. 10
 - 2) Explain with neat diagram LAN, MAN and WAN. network with suitable diagram. 10
- Q. 2
- 1) Explain different types of guided transmission media. 10
 - 2) Differentiate between 2G and 3G mobile telephone system. 10
- OR
- Write short note (any four) 20
- 1) Digital to analog conversion
 - 2) Demodulation
 - 3) Unguided media
 - 4) Satellite communication
 - 5) ADSL versus cable
 - 6) First generation.

Q. 3 Multiple choice question

10

1. Term that is used for physical path by which a message travels from sender to receiver is

- a) Jitter
- b) Protocol
- c) Transmission medium
- d) None

2. _____ is a data communication system spanning states, countries or the whole world.

- a) MAN
- b) WAN
- c) LAN
- d) None

3. In mesh topology devices are connected via

- a) Multipoint link
- b) Point to point link
- c) No Link
- d) None of the above

4. Multipoint topology is

- a) bus
- b) star
- c) mesh
- d) Ring

5. Guided media provides a conduit from one device to another, includes

- a) Twisted pair cable
- b) Coaxial cable
- c) Fiber optic cable
- d) All of the above

6. Most common twisted pair cable used in communication are

- a) UTP
- b) STP
- c) Normal twisted pair
- d) NONE

7. In_____ the amplitude of the carrier signal is varied, both frequency and phase remain constant.

- a) PSK
- b) ASK
- c) FSK
- d) QAM

8. Demodulation is done in

- a) Receiving antenna
- b) Transmitter
- c) Radio receiver
- d) Transmitting antenna

9. the second generation (2g) of mobile phones uses.

- a) Analog voice
- b) Digital voice
- c) Hybrid
- d) Digital voice and data

10. In frequency spectrum allocation 88mhz to 108mhz is assign to

- a) Am radio
- b) FM radio
- c) Mobile radio
- d) Television