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SUBJECT CODE NO:- 2105
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. T.Y. (Sem-VI)
Examination March/April-2022 (To Be Held In June/July-2022)
Computer Science Paper-CSO-19
(Data Communication & Networking)

[Time: 1.53 Hours]

[Max.Marks:50]

- N.B Please check whether you have got the right question paper.
- i) Attempt all questions
 ii) All questions carry equal marks.
- Q.1 a) Explain different components of communications system with neat diagram 10
 b) Explain the concept of modulation and Demodulation technique with suitable diagram 10
 OR
 a) Explain with neat diagram different types of network topology 10
 b) Explain with neat diagram twisted pair and coaxial cable. 10
- Q.2 a) What is transmission media? explain different types of unguided media 10
 b) Explain synchronous and Asynchronous serial data transmission 10
 OR
 Write short note on (any four) 20
 i) Second Generation (2G)
 ii) Satellite communication
 iii) Internet order cable
 iv) Amplitude shift keying (ASK)
 v) Transmission mode
 vi) Radio waves
- Q.3 Multiple choice questions 10
 1) Data communication are transfer of data through some
 a) Transmission medium b) Linear medium c) Network LAN d) Protocols
 2) Mode in which each station can send and receive data but not at same time is called
 a) Half Duplex b) Simplex c) Full duplex d) Duplex
 3) In star topology if central hub goes down, it effects
 a) One mode b) No mode c) Whole system d) Don not know
 4) ----- refers to the physical or logical arrangement of a network
 a) Topology b) mode of operation c) Data flow d) None of above
 5) Electromagnetic waves ranging in the frequencies between 3KHz and 1GHz are called

- a) High frequency b) Infrared c) Microwaves d) radio waves
- 6) infrared signal can be used for
- a) Long range communication
 - b) Short range communication
 - c) Both
 - d) none
- 7) ---- is the set of techniques that allow simultaneous transmission of multiple signal across a single data link
- a) Demodulating b) Multiplexing c) Compressing d) none of above
- 8) Modulation is done in
- a) Transmitter b) Radio Receiver c) Between transmitter and receiver d) none
- 9) The first generation (1G) of mobile phone uses
- a) Analog voice b) Digital voice c) Hybrid d) Digital voice and data
- 10) Cable modem for data transmission is similar to
- a) High bit rate digital subscriber
 - b) A symmetric DSL modem
 - c) Very high bit rate DSL modem
 - d) Asymmetric DSL lite