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**SUBJECT CODE NO: - Y-2205**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**B.Sc. (PATTERN-2013) (T.Y SEM VI)**  
**Examination April / May - 2024**

**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) Illustrate your answer with suitable diagram

- Q.1**
- a) Define computer Network. Explain LAN and MAN. 10
  - b) What is guided media? Explain twisted pair guided media. 10

**OR**

- c) Explain analog and digital signal with example. 10
- d) Explain Digital Subscriber line (DSL). 10

- Q.2**
- a) Explain different types of Network Categories. 10
  - b) What is modulation and demodulation? Explain FSK and PSK. 10

**OR**

**Write short notes on (Any four)** 20

- a) Radio waves application
- b) Simplex mode
- c) First Generation Mobile system
- d) Parallel Transmission
- e) Ring Topology



**Q.3 Multiple choice questions** 10

- 1) RJ-45 connector is used for \_\_\_\_\_ cable as a connector.
  - a) Co-axial
  - b) Twisted pair
  - c) Fiber optic
  - d) None of these
  
- 2) In a star topology a central controller \_\_\_\_\_ device is used.
  - a) Hub
  - b) RJ-45
  - c) MT-RJ
  - d) None of these
  
- 3) Transmission From the earth to the satellite is called the \_\_\_\_\_.
  - a) Uplink
  - b) Downlink
  - c) Unload
  - d) None of these

- 4) A \_\_\_\_\_ is a set of rules that govern data communication.
- a) LAN
  - b) Protocol
  - c) Both a & b
  - d) None of these.
- 5) \_\_\_\_\_ is/are orbits of satellite.
- a) Polar
  - b) Inclined
  - c) Both a & b
  - d) None of these
- 6) GPS means \_\_\_\_\_
- a) Global purchase scheme
  - b) Global particular scheme
  - c) Global positioning system
  - d) None of these
- 7) Satellite networks are like cellular networks in that they divide the planet into \_\_\_\_\_
- a) Cells
  - b) Polar
  - c) Inclined
  - d) None of these
- 8) bps means \_\_\_\_\_
- a) Baud per second
  - b) Bits per second
  - c) Both a & b
  - d) None of these
- 9) The term \_\_\_\_\_ describes the position of the waveform relative to time 0.
- a) Frequency
  - b) Amplitude
  - c) Phase
  - d) None of these.
- 10) In \_\_\_\_\_ mode, both stations can transmit and receive simultaneously.
- a) Simplex
  - b) Full-duplex
  - c) Half- duplex
  - d) None of these

