

# Computer Network

Year 2011-2014

Answer Any Five Question, Q1 is compulsory

1. Choose the correct answer:

- a) In fiber optics, the signal source is
- Light wave
  - Radio wave
  - Infrared wave
  - Very low frequency
- b) Which topology requires a central controller of hub?
- Mesh
  - Star
  - Bus
  - Ring
- c) Communication between a computer and a keyboard involves which type of transmission.
- Simplex
  - Half – duplex
  - Full- duplex
  - Automatic
- d) The OIS model consists of
- Three layers
  - Five layers
  - Seven layers
  - Eight layers
- e) Which conversion type involve modulation of a signal.
- Digital to digital conversion
  - Analog to digital conversion
  - Digital to analog conversion
  - All of the above
- f) In FDDI data normally travel on
- The primary ring
  - The secondary ring
  - Both (i)&(ii)ring

iv. Neither ring

2. What do you understand by computer Networking? Explain the objectives of a computer Network?
3. Discuss OSI model. Describe about the different layers of OIS model.
4. What is the function of router? How does router differ from a bridge?
5. What do you mean by guided and unguided media? Describe the different type of guided and unguided media?
6. Define and explain the data link layer is IEEE Project 802. Why is this layer divided into sub-layers?
7. What do you mean by protocol? Writer any three protocol I detail?
8. Compare the data transmission rates for traditional Ethernet, fast Ethernet and Gigabit Ethernet.
9. Differentiate between
  - I. Analog and Digital signal.
  - II. Baseband and Broadband transmission.
  - III. Circuit switching and packet switching.
10. Write short notes on any three of the following:
  - I. Transmission mode and its tpe.
  - II. Repeater and bridge.
  - III. Function of gateway.
  - IV. Multiplexing.
  - V. URL