

- Q.2** Answer the following questions in short. **(Any 10)** **20**
- 1) Explain Infrared Transmission in brief.
 - 2) Define Bent Pipe.
 - 3) Explain GSM, GPRS in brief.
 - 4) Find the error in the following IP Address **75.45.301.14** and elaborate your answer.
 - 5) List four port with their use.
 - 6) Draw figure for IPv4 header.
 - 7) Explain routing in brief.
 - 8) Write Full form of: DNS, SMTP, POP and FTP.
 - 9) Explain frequency modulation in brief with example.
 - 10) Differentiate between single-mode fiber and multi-mode fiber.
 - 11) Define: Bandwidth and Modulation Rate
 - 12) Explain CAT 3 cable in brief.
- Q.3(A)** Define Computer Network and explain advantages and disadvantages of Computer Network. **10**
- OR**
- Q.3(A)** Write a short note on Coaxial cable and Twisted Pair in detail. **10**
- Q.4(A)** Explain OSI reference model in detail. **06**
- (B)** Differentiate between guided and unguided media **04**
- OR**
- Q.4(A)** What do you mean by Multiplexing? Differentiate between TDM and FDM **06**
- (B)** Write the difference between circuit switching and packet switching **04**
- Q.5(A)** Write a short note on Fast Ethernet **06**
- (B)** Write a short note on TCP Segment Header. **04**
- OR**
- Q.5(A)** Write a short note on CSMA. Explain 1-Persistent, Non-Persistent and P-Persistent. **06**
- (B)** Write a short note on IPv4 protocol. **04**
- Q.6(A)** Write a note on geosynchronous satellite. **05**
- (B)** Write a short note on Bluetooth. **05**
- OR**
- Q.6(A)** Explain Cellular Topology in detail. **05**
- (B)** Write a short note on Light Transmission. **05**

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