

OCTOBER 2013

**P/ID 17466/  
RCS/PCAM**

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

All questions carry equal marks.

1. (a) Discuss the important bodies that help in standardizing data communications.

Or

- (b) Discuss the merits and demerits of ring and bus topologies.

2. (a) Compare parallel and serial transmission methods.

Or

- (b) Explain how cyclic redundancy check (CRC) works.

3. (a) Describe the differences between FDM and TDM.

Or

- (b) Why is FDDI called a "self healing" type of network? Discuss.

4. (a) Discuss the development of ISDN from the days of analog telephone networks.

Or

- (b) Explain leased line, PVC and SVC.

5. (a) Discuss the issues involved in routing.

Or

(b) What factors make TCP reliable? Explain.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

All questions carry equal marks.

6. Describe the classification of networks.

7. Write notes on interface standards.

8. How do you classify guided media? Write the characteristics of each of them.

9. Write the features of various types of switching techniques.

10. Describe the layers and interfaces of ISDN.

11. Describe characteristics and packet format of X.25 protocol.

12. Write notes on the routing algorithms of TCP/IP network.

13. Explain how an IP address is assigned to a host.