EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION, APRIL 2014

IT 09 802 – HIGH SPEED NETWORKS

Time : Three Hours   Maximum : 70 Marks

Part A

Answer all questions.

1. Define Fast Ethernet.

2. What are the main features of Data link layer?

3. Define Meta signalling.

4. What is Virtual path identifier and Virtual connection identifier?

5. Define Multiplexing.

(5 × 2 = 10 marks)

Part B

Answer any four questions.

6. Mention the advantages and disadvantages of wireless LAN.

7. What are the layers of ISDN?

8. What are the causes for congestion?

9. What are the features of ATM?

10. What is the need for window management?

11. Mention the features of Circuit switching.

(4 × 5 = 20 marks)

Part C

Answer all questions.

12. (a) Explain the performance of High speed LANs in detail.

    Or

    (b) Explain the following : (i) Congestion Control ; (ii) Frame relay.

13. (a) Discuss the traffic control, traffic management in ISDN services.

    Or

    (b) Draw the structure of BISDN architecture and explain in detail.

Turn over

14. (a) Discuss the ABR traffic management with examples.

Or

(b) Discuss the features of ATM and which aspects of the ATM network architecture depend on the fixed length nature of ATM cells? What happens if ATM cells are allowed to be variable in length?

15. (a) Explain the following : (i) IP over WDM ; (ii) SONET.

Or

(b) Explain the various Optical circuit switching concepts and its limitations.

(4 × 10 = 40 marks)