C 41675

EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION APRIL 2013

IT 09 802—HIGH SPEED NETWORKS

(2009 Admissions)

Time : Three Hours

Maximum : 70 Marks

Part A

Answer **all** questions.

1. Differentiate the working of LAN and WAN.
2. Define congestion. When does it occur ?
3. State the characteristics of BISDN.
4. Define Meta signalling in ATM networks.
5. Define Wavelength Division Multiplexing.

(5 × 2 = 10 marks)

Part B

Answer any **four** questions.

6. Explain the working of SONET.
7. Write a note on ISDN Standards and Services.
8. Explain about the Traffic Management framework in ATM Networks.
9. Explain about the optical circuit switching mechanisms.
10. Write a note on optical network evolution.
11. Explain about the segmentation and reassembly mechanism in ATM networks.

(4 × 5 = 20 marks)

Part C

Answer **all** questions.

12. Explain in detail about the Frame relay protocols and services.

Or

13. Explain about FDDI in detail.

14. With a neat sketch, explain the various layers of the ISDN network.

Or

15. Explain the architecture of the BISDN along with its functionalities.

16. Explain the working of the ATM networks in detail.

Or

17. Explain about the ABR traffic management and Protocol signalling in ATM networks.

18. Explain about the network architectures in optical networks.

Or

19. Write in detail about IP over ATM over SONET over WDM network.

(4 × 10 = 40 marks)