

C 1074

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Name

Reg.



**EIGHTH SEMESTER B.TECH. [ENGINEERING] (09 SCHEME) DEGREE  
EXAMINATION, APRIL 2016**

**IT 09 802—HIGH SPEED NETWORKS**

Time : Three Hours

Maximum : 70 Marks

**Part A**

1. State the characteristics of FDDI.
2. What is meant by BRI in ISDN ?
3. Define congestion control.
4. What are the main features of ATM ?
5. Define SONET.

(5 × 2 = 10 marks)

**Part B**

6. Explain the working of switched fast Ethernet in detail.
7. Explain about the ISDN functions.
8. How is segmentation and reassembly done in ATM networks ?
9. Write a note on Meta signalling.
10. Explain the various issues involved in Wavelength Routed Networks.
11. Explain about optical circuit switching.

(4 × 5 = 20 marks)

**Part C**

12. (a) Explain the Frame relay architecture in detail.

*Or*

- (b) With a neat sketch, explain the SONET / SDH Architecture.

13. (a) Explain about the B-ISDN Protocols in detail.

*Or*

- (b) With a neat sketch, explain the ISDN Layers.

Turn over

14. (a) Explain about the Traffic Management in ATM Networks.

*Or*

(b) Explain the cell structure and cell header in ATM Networks.

15. (a) Explain the network architectures involved in optical domain.

*Or*

(b) Explain in detail about IP over SONET over WDM.

(4 × 10 = 40 marks)