

C 80602

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Name.....

Reg. No.



**EIGHTH SEMESTER B.TECH. (09 SCHEME) (ENGINEERING) DEGREE
EXAMINATION, APRIL 2015**

IT 09 802—HIGH SPEED NETWORKS

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. Differentiate the working of fast Ethernet and switched fast Ethernet.
2. Define a Payload.
3. List the ISDN Standards.
4. Draw the ATM Cell Structure.
5. Define an optical network.

(5 × 2 = 10 marks)

Part B

Answer any four questions.

6. With an example, explain how congestion control occurs in high speed networks.
7. Explain about the ISDN Services.
8. Explain about Protocol Signalling in ATM Networks.
9. Write a note on TCP/IP over ATM.
10. With an example, explain the concept of Wavelength Division Multiplexing.
11. Explain about the Optical Networking Evolution.

(4 × 5 = 20 marks)

Part C

Answer all questions.

12. (a) Explain the working of SONET in detail.

Or

(b) Explain the services provided by Frame Relay in detail.
13. (a) With a neat sketch, explain the working of ISDN.

Or

(b) Explain the working of B-ISDN in detail.

Turn over



14. (a) Explain in detail about ATM Traffic and Congestion Control.

Or

(b) Explain the ATM Network architecture along with its functionalities.

15. (a) Explain the optical circuit switching mechanism in detail with an example.

Or

(b) Write in detail about IP over ATM over SONET over WDM.

(4 × 10 = 40 marks)