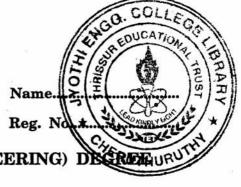
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EIGHTH SEMESTER B.TECH. (09 SCHEME) (ENGINEERING) EXAMINATION, APRIL 2015

IT 09 802—HIGH SPEED NETWORKS

Time: Three Hours

Maximum: 70 Marks

Part A

Answer all questions.

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

 $(5 \times 2 = 10 \text{ marks})$

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.

 $(4 \times 5 = 20 \text{ marks})$

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 BISDN in detail.

Turn over

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

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- (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.

 $(4 \times 10 = 40 \text{ marks})$