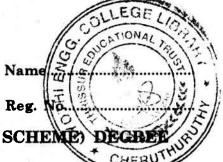
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EIGHTH SEMESTER B.TECH. [ENGINEERING] (09 SCHEME)
EXAMINATION, APRIL 2016

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.

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

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.

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

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.

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.

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