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Reg. No.....<sup>3</sup>.....

Name.....

**B.TECH. DEGREE EXAMINATION, NOVEMBER 2011**

**Sixth Semester**

Branch : Computer Science and Engineering / Information Technology

**COMPUTER NETWORKS (R,T)**

(2002 Admissions onwards—Supplementary)

Time : Three Hours

Maximum : 100 Marks

*Answer all the questions.*

**Part A**

*Each question carries 4 marks.*

1. Explain static channel allocation in LAN's and MAN's.
2. Explain the term ISDN.
3. Discuss communication satellites.
4. Define IEEE 802.3 standards for LAN.
5. Define virtual circuits and datagrams.
6. Define Multicasting.
7. What are internet transfer protocols ? Explain.
8. Briefly explain the function of ATM network.
9. Discuss about Name Servers.
10. Define "Network topology".

(10 × 4 = 40 marks)

**Part B**

*Each question carries 12 marks.*

11. Explain ISDN system Architecture.

*Or*

12. Write notes on :

- (a) Medium earthy orbit satellites.
- (b) Low earth orbit satellites.

**Turn over**

13. Explain Error-detection and correction operation in Data link layer.

*Or*

14. Explain static and dynamic channel allocations in LAN's and WAN's.

15. Explain the following :—

(a) Distance vector Multicasting.

(b) Choke packets.

*Or*

16. (a) Discuss congestion prevention policies.

(b) Write notes on traffic shaping.

17. Explain the elements of transport protocols.

*Or*

18. Explain the OSI transport service primitives.

19. Draw the general model of an electronic mail system and explain each layer.

*Or*

20. Write notes on :

(a) Bluetooth.

(b) L2CAP layers.

(5 × 12 = 60 marks)