

B.E/B.TECH (FULL TIME) DEGREE END SEMESTER EXAMINATIONS, APRIL/MAY 2011

ELECTRONICS AND COMMUNICATION ENGINEERING BRANCH

VI SEMESTER – Regulation-2004

EC383– COMPUTER NETWORKS

Time: 3 hr.

Max.Mark:100

Answer ALL Questions

**PART – A**

**(10 X 2 =20 MARKS)**

1. Define protocol and topology
2. Explain the term ITU and its subdivisions.
3. List the difference between Ethernet and fast Ethernet.
4. Draw the diagram of RS-232.
5. State the difference between congestion control and flow control.
6. Name the three techniques adopted for restricting the packet lifetime to a known maximum.
7. List out the essential content in a routing table.
8. Draw the header format of ICMP.
9. What are the four components of SNMP?
10. Explain crypt text and key.

**PART – B**

**(5 X 16 =80 MARKS)**

11. Explain the layers and functions of the OSI model and also compare it with DOD.
12. (a) Explain the MAC layer protocols in general and sliding window protocol in full .

**(OR)**

(b) Explain the IEEE-802.3 standard with the header and procedure.

13. a. Explain the interconnection issues of the bridges and explain any one type of bridge.

**(OR)**

- b.i. Explain any one congestion control algorithm. (8)
- ii. Explain any one flow control algorithm. (8)

14. a. Explain the structure and function of internet protocol version -6.

**(OR)**

b. Explain the ARP protocol and list the differences in the RARP protocol.

15. a. Explain in detail about i)FTP ii)DNS

**(OR)**

b. Explain in detail about RSA algorithm.

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