

ANNA UNIVERSITY OF TECHNOLOGY, COIMBATORE

B.E. / B.TECH. DEGREE EXAMINATIONS : NOV / DEC 2010

REGULATIONS : 2008

FIFTH SEMESTER - ECE

080290032 - COMPUTER NETWORKS

TIME : 3 Hours

Max. Marks : 100

PART - A

(20 x 2 = 40 MARKS)

ANSWER ALL QUESTIONS

1. What is the purpose of Domain Name System?
2. What is the difference between a user agent (UA) and a mail transfer agent (MTA)?
3. What are the three parts of URL?
4. What is mirroring?
5. What is the difference between network layer delivery and the transport layer delivery?
6. What is meant by Concatenation?
7. What are the techniques used in multiplexing?
8. Why congestion occurs in network?
9. What is switched virtual circuit?
10. What is meant by hop count?
11. Define IP address.
12. Write the keys for understanding the link state routing.
13. What are the responsibilities of data link layer?
14. Define checksum.
15. Mention the different types of Ethernet networks.
16. Name the modulation technique used by IEEE 802.11b

17. What is the basic principle behind quantum cryptography?

18. What are the parts of a PGP message format?

19. What is Authentication?

20. What is DNS spoofing?

PART - B

(5 x 12 = 60 MARKS)

ANSWER ANY FIVE QUESTIONS

21. (a) Write notes on FTP (6)
(b) Explain WWW in detail? (6)
22. Explain the duties of Transport Layer?
23. (a) Write notes on (i) UDP and (ii) TCP (8)
(b) Explain the three stages of connection oriented transmission? (4)
24. Explain in detail distance vector routing and link state routing?
25. List the algorithms for allocating a multiple access channel. Explain any two in detail.
26. Draw the protocol stack of 802.11 and explain the services of Physical Layer and MAC layer?
27. Explain the various types of encryption/decryption methods.
28. Explain Authentication protocols using
(i) a key distribution center and
(ii) Kerberos

***** THE END *****