Code: CSCS2T4

I M.Tech-II Semester-Regular Examinations-December 2013

COMPUTER NETWORKS
(COMPUTER SCIENCE & ENGINEERING)

Duration: 3 hours   Marks: 5x14=70

Answer any FIVE questions.   All questions carry equal marks

1. a) How does the information get passed from one layer to the next layer in the OSI model? Explain with a neat diagram.   8M

   b) Describe about network hardware with examples.   6M

2. a) Define HTTP. Explain about HTTP?   7M

   b) Describe about Name server and Resource records in DNS with examples.   7M

3. a) What are the services offered by the transport layer to the upper layers? Explain.   7M

   b) Describe the TCP Connection management with suitable examples.   7M

4. a) Describe the link state routing algorithm with an example.   8M

b) Consider any subnet with and find the shortest path between all the pair of nodes using any routing algorithm.

6M

5.a) Explain about MAC layers in detail? 7M

b) Describe the Ethernet Protocol. 7M

6.a) Explain about guided transmission medium with neat diagrams. 9M

b) Describe about analog- to-analog conversion techniques.

5M

7.a) What are the real time interactive protocols? Explain.

9M

b) Discuss about the role of multimedia in the internet.

5M

8.a) Define a firewall. Explain about the different types of firewalls. 6M

b) Describe about Message confidentiality. 8M