

Code: CSCS2T4

**I M.Tech - II Semester - Regular Examinations - August 2014**

**COMPUTER NETWORKS  
(COMPUTER SCIENCE & ENGINEERING)**

Duration: 3 hours

Marks: 5x14=70

Answer any FIVE questions. All questions carry equal marks

1. a) Define a network. What are the different networks available? Describe the TCP/IP reference model. 8 M  
b) Compare Space division and Time division switches. 6 M
2. a) Describe the World Wide Web and its applications. 7 M  
b) How are options negotiated in TELNET? Explain. 7 M
3. a) What is Congestion Control? Explain about TCP Congestion control with an example. 8 M  
b) Discuss about UDP Header. 6 M
4. a) What is Count-to-infinity problem? Explain. 7 M  
b) Explain the Multi Casting routing and its applications. 7 M

5. a) Describe the protocol used for a Noisy channel. 7 M
- b) Define Framing. Explain about Framing in Data link control. 7 M
6. a) What are the techniques used for Digital -to-Digital Conversion? Explain with an example. 10 M
- b) Define Bandwidth, Analog & Digital data, Periodic & Non-periodic signals. 4 M
7. a) Explain about Video Compression 7 M
- b) Explain about Quality of Service. 7 M
8. a) Explain the RSA algorithm with an example. 8 M
- b) What are the important aspects of security? Describe. 6 M