IT - 503

B.E. V Semester

Examination, December 2013

Computer Networks

Time : Three Hours

Maximum Marks : 70

Note: Attempt one question from each unit. Each unit have equal marks. Assume Data / Value if required

Unit - I

1. a) Describe the Design issues for different layers. 7
   b) Compare the different forms of transmission media. 7

   OR

2. a) What are the advantages of multipoint connection over a point to point connection? 7
   b) Write comparison between TCP/IP and ISO/OSI reference model. 7

Unit - II

3. a) Discuss the design issues of data link layer. 7
   b) Explain about HDLC. 7

   OR

4. a) Distinguish between a point-to-point link and a broadcast link. 7
   b) Discuss about ARQ in detail. 7

Unit - III

5. a) Write comparison between wired LAH, wireless LAH, WIMAX. 7
   b) What do you understand by IEEE standard? Explain briefly about some standard. 7

   OR

6. a) A pure ALOHA network transmits 200bit frames on a shared channel of 200kbps. What is the through put if the system produces 1000 frames/second. 7
   b) Describe about CSMA / CD protocol. 7

Unit - IV

7. a) Explain the congestion control in virtual circuit. 7
   b) Describe about unicast routing protocols and multicast routing protocols. 7

   OR

8. a) Draw the frame format of IPv4. 7
   b) Explain Bellman ford Algorithm with example. 7

Unit - V

9. a) Differentiate between UDP and TCP. 7
   b) Write procedure, for configure the internetworking. Device like-switches, hubs, routers. 7

   OR

10. Write short note on: 14
    i) Integrated Services.
    ii) IP configuration
    iii) Transport services.