Seat No.:	Enrolment No

## GUJARAT TECHNOLOGICAL UNIVERSITY M. E. - SEMESTER – I • EXAMINATION – WINTER • 2013

Date: 30-12-2013 Subject code: 710205N **Subject Name: Internet Technology** Time: 10.30 am - 01.00 pm**Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. (a) What is an IP address? What are different IP address classes? Give merits 07 0.1and demerits of classful IP addressing. (b) Explain the special IP addresses with their use. Give the use of private IP 07 addresses. **Q.2** (a) What is subnetting? Explain it with the class C network as example. 07 (b) What do you mean by interconnecting devices? Explain their role with 07 example. (b) Explain the different types of cables used in networking with their speed 07 and distance limits. Q.3 (a) Describe the following with respect to IP protocol. 07 1. Significance of TTL field 2. Fragmentation (b) Give the IP header and explain the meaning of each field in brief. 07 Q.3 (a) Describe the functions of the following servers. 07 1. Web server 2. Email Server (b) Give the TCP header and explain the meaning of each field in brief. 07 **Q.4** (a) What do you mean by web site design? Explain the steps to design a 07 (b) What is HTML? Give the format of the HTML tags and list the important 07 OR **Q.4** (a) Design a web page displaying the pricelist of the items in a shop. 07 **(b)** What is CSS? What is its use? Explain with example. 07 (a) What is JavaScript? Give the different purpose for which JavaScript is Q.5 07 **(b)** Give the functions of: directory server and proxy server. 07 Q.5 (a) What is DNS? How does it work? 07 **(b)** Explain the Internet architecture with Internet standards. 07

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