

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. 1ST Semester Remedial Examination –July- 2011****Subject code: 710205****Subject Name: Internet Technology****Date:13/07/2011****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.

- Q.1 (a)** Explain how Internet standards are formed , and also explain the Internet administration. **07**
- (b)** Explain the functions of the following networking devices in detail: **07**
- i) Bridges
 - ii) Routers
 - iii) Switches
- Q.2 (a)** Explain the classful addressing Write your comments of special addresses. **07**
- (b)** What do you understand by subnetting ? How ISP is granted a block of addresses are distributed to the customers, explain it with example. **07**
- OR**
- (b)** What is style sheet? Briefly explain. What are different ways for creating style sheet explain. Also explain CSS Box model in brief. **07**
- Q.3 (a)** Design HTML page which include table tag with its entire attributes. **07**
- (b)** Design web page using JavaScript which takes input as a number using prompt dialog box from user and find its square-root and display answer. **07**
- OR**
- Q.3 (a)** How Internet works? What are the requirements for connecting to Internet? **07**
- (b)** What is Proxy server ? Explain NAT in detail, **07**
- Q.4 (a)** Compare TCP and UDP protocols. **07**
- (b)** What is DNS? Explain the various name resolution methods, also explain the concept of caching in DNS and its advantages. **07**
- OR**
- Q.4 (a)** Write down the steps for creating website. **07**
- What are the benefits of HTML? How would you create forms in HTML?
- (b)** What is XML? What are naming rules in XML? Describe the difference between XML and HTML **07**
- Q.5 (a)** Explain client-server model and explain the concept of concurrency in clients and servers. **07**
- (b)** Discuss the issues of the physical layer of OSI. **07**
- Compare fiber optic cable and UTP cable.
- OR**
- Q.5 (a)** Explain email system and how SMTP provides mail exchange between users on the same or different system, also explain the purpose of MIME in email system. **07**
- (b)** Explain the following servers in brief: **07**
- i) FTP server
 - ii) Web server
