



VEERMATA JIJABAI TECHNOLOGICAL INSTITUTE

[Central Technological Institute, Maharashtra State]

Matunga, Mumbai-400 019

EXAMINATION
SEMESTER & PROGRAM
TIME ALLOWED
COURSE (Course Code)

ESE April-2014 (Re-exam)
IV & S.Y.B.Tech. (comp)
3 HRS.
TCP IP Suite (CO 0207)

DATE OF EXAM 22/05/14
TIME 1.30 P.M - 4.30 P.M.
MARKS 100

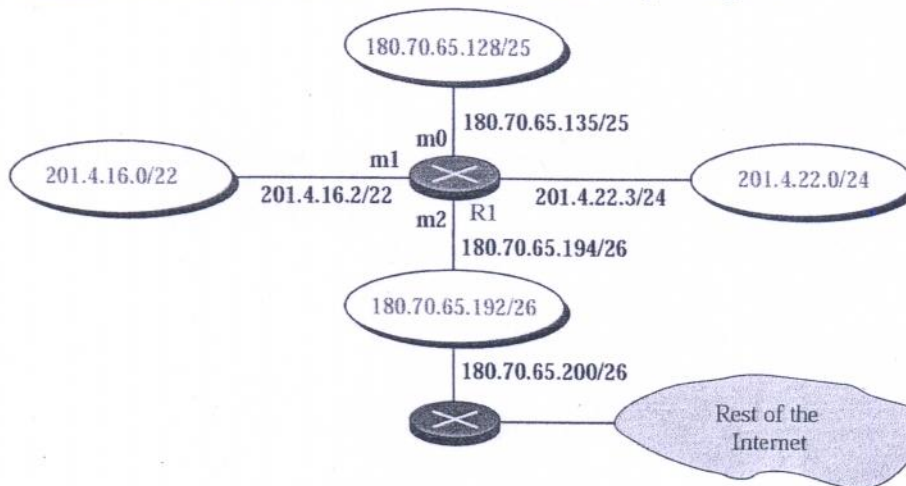
- Instructions
- Figures to the right indicate full marks.
 - Assume data whenever required.

- Q.1
- The uniform resource locator (URL) is a standard locator for specifying any kind of information on the Internet. Precisely mention parts of URL and briefly explain each part with example 05M
How does ARP resolve an IP address to an Ethernet MAC address? 05M
 - How the heterogeneity problem is resolved in ftp server client system 05M
 - Explain five important aspects of TFTP protocol 05M

OR

- HTTP protocol is used mainly to access data on the world wide web. The commands from the client to the server are embedded in a request message and the response message contains requested information. Illustrate this generalized http transaction between client and server with the help of figure. 05M

Q.2



- For the above diagram create the routing table for router R1 in proper format 05M
 - Show the forwarding process if a packet arrives at R1 with the destination address 180.70.65.140 05M
 - Explain with neat figure how DHCP protocol works with example 10M
- Q.3
- An application layer protocol typically defines four things. What are these four things? 05M
 - Explain sliding window protocol in detail 10M
 - Why do you need ARP and RARP protocol? 05M

OR

- What is the key difference between distance-vector and link-state routing protocols in terms of how protocol messages are sent? 05M

Q.4

- What is the purpose of SMI and MIB in relation to SNMP? 10M
- What is congestion? Why congestion occurs? What are the two basic mechanisms 10M

of congestion control?

OR

- b. Illustrate with the help of neat labeled figure basic model of FTP. Your figure must clearly indicate various components of client and server 10M

Q5

An organization is granted the block 220.125.5.192/26. The administrator wants to divide the network into 4 subnets. For every subnet

- | | |
|----------------------------------|-----|
| a. Find subnet mask | 04M |
| b. Find range of IP addresses | 04M |
| c. Find network address | 04M |
| d. Find broadcast address | 04M |
| e. Draw the organization diagram | 04M |