MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

Department of Information and Communication Technology.

Group-Assignment

Sub: Network Programming and Advanced Communication Networks (ICT-3173) Max Marks: 05

Class: V Semester CCE Date: 03-10-2022

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1. Design the network scenario using cisco packet tracer.

   a. The network consists of 15 hosts, 4 routers, 2 wireless routers, 3 switches, 4 sensors, 1 fan, 2 LED, 2 VoIP phones, 2 Servers. **(1)**
   b. The topology should consist of RIP, OSPF, NAT, DHCP, NTP, EIGRP protocols. **(1)**
   c. While configuring the network use Class A, B, C ip addresses (Both classful and classless) **(0.5)**
   d. Check the connectivity between PC 0 and Server0 by displaying the "All the Best" message at PC 0 using web browser. **(0.5)**
   e. Check the connectivity between PC 14 and Server1 by displaying the files of server 1 at PC 14 using ftp command**. (0.5)**
   f. Write a command to store the router3 configuration in secondary memory and changes the Hello Interval timer to 20 seconds of router 2**. (0.5)**
   g. Display the detail list of neighbors at router 4 and reset the OSPF counter**. (0.5)**
   h. Display the routing table of all the routers. **(0.5)**

   Note:

   1. Entire scenario should be configured in the **single topology.**
   2. Topology is of your choice.
   3. Group Size is maximum 4 members.
   4. Each group should have a single report (softcopy) and cisco output file (filename.pkt)
   5. The report should consist of Group number, Names and registration numbers.