**Name:**

**Roll No:**

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| **UNIVERSITY OF PETROLEUM AND ENERGY STUDIES, DEHRADUN** | | | |
| Assignment#2Programme Name: B.Tech (CSE- Big Data) Semester : IVCourse Name : DCNCourse Code : CSEG 2009 Max. Marks : 20Nos. of page(s) : 01 **Instructions :** **Answer the following questions** | | | |
| **All the questions are compulsory and explain in your own wording. Copying is not allow from any mean and if found strict action will be taken against.** | | | |
| S. No. |  |  | **CO** |
| Q1 | The subnet mask for a particular network is 255.255.31.0. Which of the following pairs of IP addresses could belong to this network?   1. 172.57.88.62 and 172.56.87.233 2. 10.35.28.2 and 10.35.29.4 3. 191.203.31.87 and 191.234.31.88 4. 128.8.129.43 and 128.8.161.55 | **3** | **CO4** |
| Q2 | C:\Users\amit.singh1\Desktop\Topology.PNG   1. Add two more computers to the left switch and configure all of the four computers with an IP address, subnet mask, and default gateway. 2. Add two more servers to the right switch and configure all of the four servers with an IP address, subnet mask, and default gateway. 3. Configure the SVI (Switch Virtual Interface) of vlan 1 on both of the switches with an IP address and a subnet mask. 4. Check connectivity between the computers and the left switch that is in the same LAN. 5. Check connectivity between the servers and the right switch that is in the same LAN. | **4** | **CO4** |
| Q3 | The address of a class B host is to be split into subnets with a 6-bit subnet number. What is the maximum number of subnets and the maximum number of hosts in each subnet? | **4** | **CO4** |
| Q4 | What is the requirement of DNS?   1. Observe the DNS Conversion of a URL to an IP Address 2. Observe DNS Lookup Using the nslookup Command on a Web Site 3. Observe DNS Lookup Using the nslookup Command on Mail Servers | **2+3** | **CO5** |