**ASSIGNMENT FORMAT**

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| **COURSE** |  | **ASSIGNMENT NO** |  |
| **MODULE** |  | **ASSIGNMENT DATE** |  |
| **STUDENT NAME** |  | **SUBMISSION DATE** |  |

Q1. Write the important functions of all 7 layers of OSI Layers.

Ans:

“*Define each layer in brief mentioning their functions, protocols, devices used”*

Q2. Connect two PC to a server using a switch. Assign IP address to each and show the connection between all three.

Ans

1. **Select the PC’s and server in Packet tracer**
2. **Using switch and connect all three end devices with cable**
3. **Topology Diagram**

*“Insert the screenshot of the resulted topology”*

1. **Assign IP’s to all End devices**

*“Write down the steps while assigning the IP’s”*

*“Insert the screenshot showing IP Assignment”*

1. **Ping PC1 to PC2**

*“Insert the screenshot of Ping result”*

1. **Ping PC1 to Server & PC2 to Server**

*“Insert the screenshot of Ping Result”*

1. **Access the server using port 80 and 443 respectively and pen down your observations**
2. **Port 80**

*“Insert the screenshot”*

**Observations:**

1. **Port 443**

*Insert the screenshot”*

**Observations:**

1. **Switch OFF port 80 and access the server and vice-versa, write your observations**
2. **Port 80 OFF**

*“Insert the screenshot”*

**Observations:**

1. **Port 443 OFF**

*“Insert the screenshot”*

**Observations:**

**BONUS LAB:**

Configure your own network with PC’s and Server using switch and try to configure HTTP and HTTPS and explain data flow in each layer. Use DNS server and observe the difference in data flow.

**PRACTICE QUESTIONS(for interview):**

1. Configure a PC, switch router and a server and explain how data flows from PC to sever and back?
2. Explain the importance of OSI Model
3. Compare OSI Model with TCP/IP