

# Computer Network- Mid Assignment

Name: ID: Sec: Total Mark:

**1.** What is the full form of OSI Model Layer? Explain all the layers in details.

**Note:** You must write all the layers and details.

**2.** Why multiple access protocol is used? Mention all the types and their protocol in detail.

**Note:** Describe protocols like CSMA/CA, CD, FDMA, TDMA, CDMA and their mathematical term.

**3.** What is DNS? Describe the DNS process properly using a diagram. Do you think ARP cache can help us regarding DNS process? If yes/no, then explain ARP Cache and why we use it.

**4.** What is Broadcast Domain and Collision Domain? Do you think hub, switch and router has the same broadcast domain and collision domain? Draw a figure and explain it.

**5.** Your ID: AB-CDEFG-H

Given IP: ABC.D.0.0 and subnet mask is 255.255.0.0

Department	IP Required
Sales	4000
Marketing	2000
Admin	1000
IT	4

Find out the problems:

Network Range of Sales	
Sales Network Address	
Sales Broadcast Address	
Marketing's 1023rd IP	
IT's Broadcast Address	
Admin's 3 <sup>rd</sup> Last Usable IP	

**Note: Do Not Copy.**

**Submission Date and Time: 6<sup>th</sup> March 2023**

**Submission Platform: Microsoft Teams**

**Submission Process: Write on paper then make pdf.**