**Lab 7-H DHCP**

Name – Sati, Ankit Date – 12/22/2021

Section - 001

Total in points (Maximum 100 points)–

Professors Comments –

Affirmation of Independent Effort – Ankit Sati

**ANSWERS**

1. DHCP messages are sent over UDP. 2.

1. Graphical user interface, text

   Description automatically generatedThe link layer address of host is 00:04:23:52:2b:23
2. The DHCP message type parameter allows us to differentiate between the discover and request message.
3. Graphical user interface, application

   Description automatically generatedThese are the following transaction IDs in each of the first four DHCP messages.
4. The source and destination address of the four DHCP messages will be:

Text

Description automatically generated

1. The IP address of the DHCP server is 192.168.1.1 8.
2. The IP address of the Relay agent is 0.0.0.0 indicating that there is no Relay Agent used in the experiment.
3. The router indicates the default gateway to the client and the subnet mask line tells the client regarding the subnet mask that should be used.
4. 11.
5. The lease time is the amount of time the DHCP will assign an IP address to the client.
6. The release message is sent by the client to cancel its lease on the IP address that is provided by the DHCP server. No, there is no acknowledgement sent by the server to the client acknowledging this release message.
7. Yes, ARP packets were sent from the DHCP server which are used to ensure that the given IP address is not in currently in use by another station.