National University of Computer and Emerging Sciences, Lahore Campus

	Course Name:	Computer Networks	Course Code:	CS 3001
	Program:	BS (Computer Science)	Semester:	Fall 2023
	Duration:	15 minutes	Total Marks:	15
	Paper Date:	21-September-2023	Section	5J
	Exam Type:	Quiz 2 - Chapter 2	Page(s):	2

Student Name   **Roll No.**   **Section:**

Q1. Encircle the correct option: [5 marks] [CLO 2]

1. A socket consists of:
   a) MAC Address
   b) IP Address
   c) Port Number
   d) Both (b) & (c)

2. Multiple objects can be sent over a same TCP connection between client and
   server in:
   a) Non-Persistent HTTP
   b) Persistent HTTP
   c) None
   d) Both (a) & (b)

3. HTTP is a_____protocol?
   a) Push
   b) Pull
   c) Stateless
   d) Both (b) & (c)

   True/False:

   1. HTTP client requests by establishing a UDP connection to a particular port on the server [T / F]

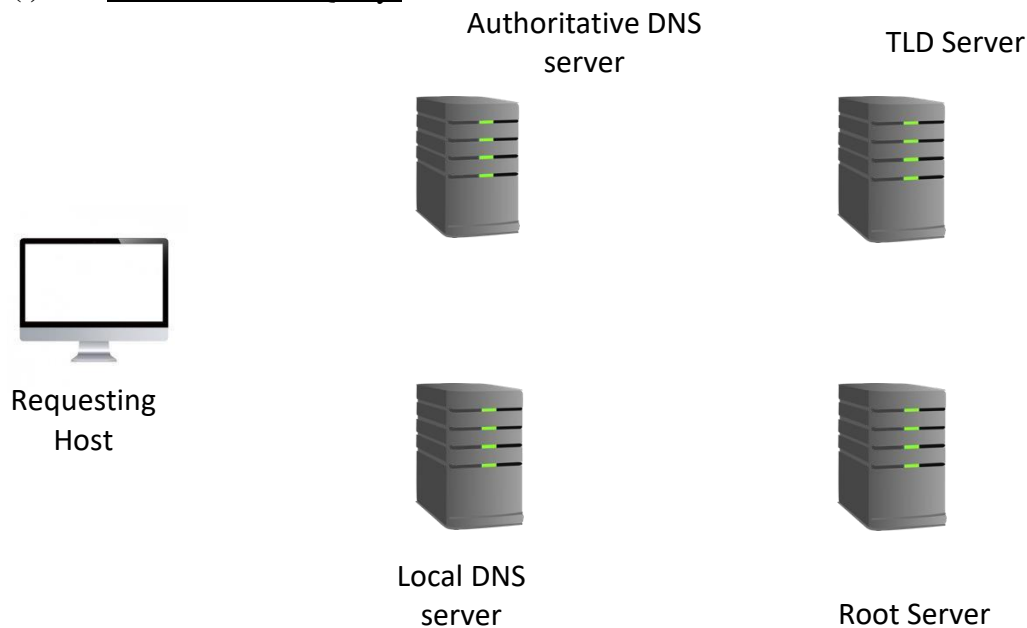   2. SMTP uses port 29. [T / F]

Q3.

(a) What is RTT? [2 Marks] [CLO 2]

(b) Elaborate the difference between Recursive and Iterative DNS query with help of the figures below? [4 + 4 Marks] [CLO 2]

NOTE: Draw arrow lines showing messages between the requesting host/ DNS servers (& vice versa) to complete a DNS query/ response sequence. Furthermore, number each line to show the communication sequence.

(i) Recursive DNS Query:

(ii) Iterative DNS Query: