


**National University of Computer and Emerging Sciences, Lahore Campus**

	<b>Course Name:</b>	<b>Computer Networks</b>	<b>Course Code:</b>	<b>CS 3001</b>
	<b>Program:</b>	<b>BS (Computer Science)</b>	<b>Semester:</b>	<b>Fall 2022</b>
	<b>Duration:</b>	<b>15 minutes</b>	<b>Total Marks:</b>	<b>15</b>
	<b>Paper Date:</b>	<b>22-September-2022</b>	<b>Section</b>	<b>5B</b>
	<b>Exam Type:</b>	<b>Quiz 2 - Chapter 2</b>	<b>Page(s):</b>	<b>2</b>

**Student Name**

**Roll No.**

**Section:**

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**Q1. Encircle the correct option:**

**[5 marks]**

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. POP3 is stateless across sessions. [T / F]

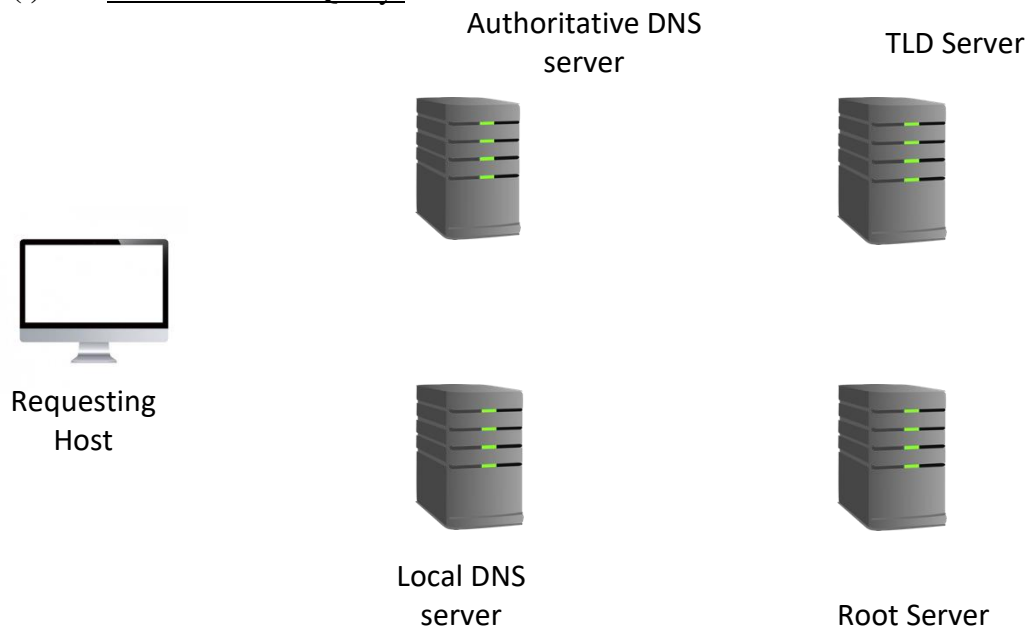
### Q3.

(a) What is RTT? [2 Marks]

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

**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:

