

<b>National University of Computer and Emerging Sciences, Lahore Campus</b> 			
Course:	Computer Networks	Course Code:	CS307
Program:	BS(Computer Science)	Semester:	Fall 2019
Duration:	15 Minutes	Total Marks:	14
Date:	21 Oct, 2019	Quiz:	2
Section:	E	Page(s):	1 / 10
Name: <u>Haseeb Afzal</u> Roll No. <u>15L-4078</u>			

**AVG**

**Question 1: [Marks 4]**

✓ 1. Which of the following is false with respect to UDP  
 a) Connection-oriented  
 b) Unreliable  
 c) Transport layer protocol  
 d) All of the mentioned

✓ 2. Which multiplexing technique transmits digital signals?  
 a) FDM  
 b) TDM  
 c) WDM  
 d) FDM & WDM

✗ 3. Domain Name System (DNS), has two types of messages  
 a) Query and Resolver  
 b) Hosted and Generic  
 c) Query and Responsive  
 d) Resolver and Informative

✓ 4. Unreliable and connectionless protocol is  
 a) TCP  
 b) ARP  
 c) RARP  
 d) IP

**Question 2: [Marks 4]**

Indicate whether you think TCP or UDP would be better suited for each of the following applications and briefly explain why.

• Streaming video client/server  
 UDP best suits the streaming video client server as it doesn't need to make connection for every packet of data, the data flow should be fast without any delay.

• Multiplayer online first-person shooting game  
 TCP best suits the multiplayer online first-person shooting game as it will require connection and do a ~~passive~~ request and then the other person will approve and handle

**Question 3: [Marks 6]**

Consider the TCP connection mechanism.

- i. What mechanism is used to set up a TCP connection?

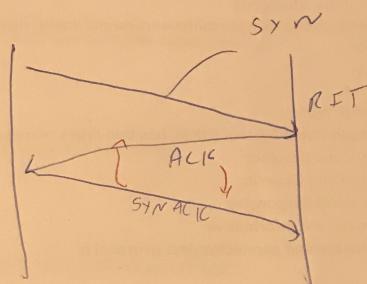
3 way hand shake

2

client Request the serv.  
Serv. sends approves/disapproves  
Client send data to

- ii. Using diagram show how the mechanism works.

3



Question 3: [Marks 6]

Consider the TCP connection mechanism.

- i. What mechanism is used to set up a TCP connection?

- ii. Using diagram show how the mechanism works.

National University of Computer and Emerging Sciences, Lahore Campus



Course: Computer Networks  
Program: BS(Computer Science)  
Duration: 15 Minutes  
Date: 21 Oct, 2019  
Section: E

Course Code: CS307  
Semester: Fall 2019  
Total Marks: 14  
Quiz: 2  
Page(s): 1 / 12

Name: M. Abdullah Roll No. LIG-4156

Question 1: [Marks 4]

1. Domain Name System (DNS), has two types of messages
  - a) Query and Resolver
  - b) Hosted and Generic
  - c) Query and Responsive
  - d) Resolver and Informative
2. Which multiplexing technique transmits digital signals?
  - a) FDM
  - b) TDM
  - c) WDM
  - d) FDM & WDM
3. Unreliable and connectionless protocol is
  - a) TCP
  - b) ARP
  - c) RARP
  - d) IP
4. Which of the following is false with respect to UDP
  - a) Connection-oriented
  - b) Unreliable
  - c) Transport layer protocol
  - d) All of the mentioned

Question 2: [Marks 4]

Indicate whether you think TCP or UDP would be better suited for each of the following applications and briefly explain why.

• Internet telephony voice channel

2.  UDP: because if some of the voice signals dropped we don't have much problem because it is fast and we need fast delivery of signals.

• IRC (chat) client/server

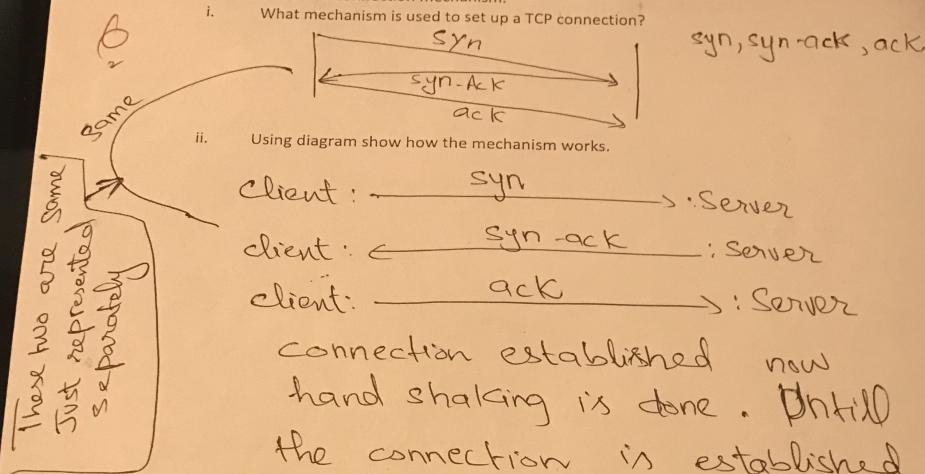
2.  TCP because for chatting every message should be delivered on both side because we need must sending of message even if it is slower

National University of Computer and Emerging Sciences, Lahore Campus					
	Course: Computer Networks	Course Code: CS307			
Program: BS(Computer Science)	Duration: 15 Minutes	Semester: Fall 2019			
Date: 21 Oct, 2019	Total Marks: 14				
Section: E	Quiz: 2				
	Page(s): 1	(2)			
MN	Name: Ahmad Khalid	Roll No.: 16L-4327			
<u>Question 1: [Marks 4]</u>					
<p>1. Domain Name System (DNS), has two types of messages</p> <p><input checked="" type="radio"/> a) Query and Resolver  <input checked="" type="checkbox"/> b) Hosted and Generic  <input checked="" type="checkbox"/> c) Query and Responsive  <input checked="" type="checkbox"/> d) Resolver and Informative</p> <p>2. Which multiplexing technique transmits digital signals?</p> <p><input checked="" type="checkbox"/> a) FDM  <input checked="" type="radio"/> b) TDM  <input checked="" type="checkbox"/> c) WDM  <input checked="" type="checkbox"/> d) FDM &amp; WDM</p> <p>3. Unreliable and connectionless protocol is</p> <p><input checked="" type="checkbox"/> a) TCP  <input checked="" type="checkbox"/> b) ARP  <input checked="" type="radio"/> c) RARP  <input checked="" type="checkbox"/> d) IP</p> <p>4. Which of the following is false with respect to UDP</p> <p><input checked="" type="checkbox"/> a) Connection-oriented  <input checked="" type="checkbox"/> b) Unreliable  <input checked="" type="checkbox"/> c) Transport layer protocol  <input checked="" type="checkbox"/> d) All of the mentioned</p>					
<u>Question 2: [Marks 4]</u>					
<p>Indicate whether you think TCP or UDP would be better suited for each of the following applications and briefly explain why.</p> <ul style="list-style-type: none"> <li>• Internet telephony voice channel</li> </ul> <p><input checked="" type="checkbox"/> 1 TCP would be better suited for this application as it requires a connectionless system and has to be done <del>real time</del> through a channel for communication.</p>					
<ul style="list-style-type: none"> <li>• IRC (chat) client/server</li> </ul> <p><input checked="" type="checkbox"/> 2 This application uses</p> <p><input checked="" type="checkbox"/> 3 UDP would be better suited for this system as this application works on a real-time scenario. It is also a connectionless system.</p>					

Question 3: [Marks 6]

Consider the TCP connection mechanism.  
i. What mechanism is used to set up a TCP connection?

ii. Using diagram show how the mechanism works.



Client:  $\xrightarrow{\text{syn}}$  Server  
client:  $\xleftarrow{\text{syn-ack}}$  Server  
client:  $\xrightarrow{\text{ack}}$  Server

connection established now  
hand shaking is done. Until  
the connection is established  
messages can be send from  
one side to other