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| **National University of Computer and Emerging Sciences, Lahore Campus** | | | | |
| C:\Users\saif\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\final design.jpg | **Course:** | **Computer Networks** | **Course Code:** | **CL-307** |
| **Program:** | **BS(Computer Science)** | **Semester:** | **Fall 2018** |
| **Duration:** | **20 Minutes** | **Total Marks:** | **25** |
| **Paper Date:** | **08-October-18** | **Weight** | **4%** |
| **Section:** | **B** | **Page(s):** | **4** |
| **Exam:** | **Quiz 1** | **Reg. No.** |  |
| **Instruction/Notes:** |  | | | |

**PART 1: (Marks: 8)**

**Answer each of the following questions brief and to the point.**

1. **What is the difference between TCP Socket Programming and UDP Socket Programming? Explain with the help of Block Diagram. (4)**
2. **Suppose a person wants to do a transaction from a remote client to a server as fast as possible. Which protocol UDP or TCP would be better? Why? (2)**
3. **What is meant by handshaking protocol? (1)**
4. **What information is used by a process running on one host to identify a process running on another host? (1)**

**PART 2 (Marks: 5)**

**Answer each of the following questions brief and to the point.**

1. **Give two uses of Ping command? Which Linux command is used to get the IP address of all interfaces on a server? (2)**
2. **What is the difference between a socket and a port number? Is it possible to connect multiple clients to same socket at the same time? Explain your answer. (3)**
3. **Explain the difference between Connect( ) and Bind( )? (1)**

**PART 3 (Marks: 12)**

**Select an appropriate answer for each of the following questions.**

1. A port address in TCP/IP is .........bytes long.  
   A. 32 B. 48 C. 16 D. None of these
2. Which command is used to list only the TCP Sockets in Linux system:   
   A. ss –u -t B. ss -tcp C. ss –u -a D. None of these
3. Which protocol deals with emails?
4. FTP B. SMNP C. Both a & b D. None of these
5. Which linux command is used to check the domain name of any given server IP?
6. dns –ip B. nslookup C. ifconfig D. both a & b
7. Which one is incorrect Port No?
8. 65536 B. 241 C. 30987 D. 80
9. Transport layer protocols deals with \_\_\_\_\_\_\_\_\_ communication.
10. application to application
11. process to process
12. node to node
13. host to node
14. Which one of following is a correct order of the function(s) to be called for a TCPclient:
15. Socket(),bind(),accept(),send(),recv(),close()
16. Socket(),bind(),sendto(),recvfrom(),close()
17. Socket(),bind(),connect(),send(),recv(),close()
18. Socket(),bind(),connect(),sendto(),recvfrom(),close()
19. The client in socket programming must know which information?
20. IP address of Server
21. Port number
22. Both IP address of Server & Port number
23. None
24. Communication offered by TCP is
25. Full-duplex
26. Half-duplex
27. Semi-duplex
28. Byte by Byte
29. Which system calls in socket programming results in the sending of SYN packets?
30. Bind
31. Connect
32. Listen
33. Accept
34. Web, Email and DNS employ \_\_\_\_\_\_\_\_ architecture.
35. Peer to peer
36. Client-Server
37. Hybrid
38. None
39. TCP socket is identified by \_\_\_\_ tuple.
40. 2
41. 3
42. 4
43. 5