

Course No: MUL 3303
Course Title: DATA
COMMUNICATION
AND NETWORKS
Date: 18/01/2014
No. of Questions: 4
Time: 2 hours
Using Calculator (No)

University of Palestine



Final Exam
First semester 2014/2015
Total Grade: 40

Instructor Name: Mr. Ahmed
AbuMosameh
Student No.: _____
Student Name: _____
College Name: _____
Section No.: _____
Using Dictionary (No)

First Question

(10/60)

Decide whether the following sentences are TRUE or FALSE :

- 1- When both sender and receiver are connected to the mail server via a LAN or a WAN, we need two UAs, two pairs of MTAs and a pair of MAAs. ()
- 2- VLANs create broadcast domains. ()
- 3- In a hierarchical name space, the first part can define the nature of the organization. ()
- 4- UDP is a reliable transport protocol. It uses an acknowledgment mechanism, Checksum and Retransmission. ()
- 5- ARP finds the logical address for a machine that knows only its physical address. ()
- 6- Router has a routing table with an entry for each destination, to route IP packets. ()
- 7- IPv6 address consists of 15 octets; it is 128 bits long. ()
- 8- There are three classes in IPv4 addresses. Classes A, B, and C. ()
- 9- IPv4 is an reliable connectionless protocol. ()
- 10- HTTP uses a TCP connection to transfer files. ()

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Second Question

(20/60)

a. The URL defines four things Illustrate it.

b. Mention IPv4 datagram format.

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c. Talk about TELNET.

d. Talk about intradomain routing with example.

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Third Question

(10/60)

compare between :

1. Connectionless Service & Connection~Oriented Service

2. Error Reporting & Query messages

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Forth Question

(10/60)

A block of addresses is granted to an organization. We know that one of the addresses is 17210.10.10.33/15

Find:

- a. Network ID**
- b. The first address**
- c. The last address**
- d. Broadcast IP**
- e. The number of Networks**
- f. The number of Hosts**
- g. Two block Network**

End of Questions
Good Luck