

Course No: MUL 3303
Course Title: DATA
COMMUNICATION
AND NETWORKs
Date: 14/11/2013
No. of Questions: 3
Time: 1 hours
Using Calculator (No)

University of Palestine



Midterm Exam
Summer semester
2012/2013
Total Grade: 30

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

First Question

(10/30)

Decide whether the following sentences are TRUE or FALSE :

- 1- The session layer establishes, maintains, and synchronizes the interactions between communicating devices. ()
- 2- The TCP/IP application layer is equivalent to the combined session, presentation, and application layers of the OSI model. ()
- 3- Flow control refers to a set of procedures used to restrict the amount of data that the sender can send before waiting for acknowledgment. ()
- 4- To detect or correct errors, we need to send extra bits with data ()
- 5- In a cyclic code, if a codeword is cyclically shifted (rotated), the result is another codeword. ()
- 6- In pure ALOHA we divide the time into slots. ()
- 7- In Random access there is an scheduled time for a station to transmit. ()
- 8- Any device has a table used in filtering decisions it can check the destination address such as active hub. ()
- 9- If any two devices connected to a hub send a frame simultaneously, a collision will occur. ()
- 10- In a star backbone, the topology of the backbone is a star; the backbone is hub. ()

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Second Question

(10/30)

a. Compare between Carrier Sense Multiple Access (CSMA) & Go-Back-N Automatic Repeat Request

b. Talk about Encapsulation in Data Link Layer only.

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c. Talk about byte-stuffing strategy.

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Third Question

(10/30)

You received this data

| <i>Datawords</i> | <i>Codewords</i> |
|------------------|------------------|
| 1000 | 10001 |
| 1001 | 10010 |
| 1010 | 10100 |
| 1011 | 10111 |

1. Check the syndrome result.

2. How many error can I detect and correct?

End of Questions
Good Luck