

Course No: ITGD4103  
Course Title: Data  
Communications and Networks  
Date: 16 / 11/ 2011  
No. of Questions: 3  
Time: 1 hours  
Using Calculator (yes)

University of Palestine



Midterm Exam  
First Semester  
2011/2012  
Total Grade: 100

Instructor Name: Dr. Anwar  
Mousa  
Student No.: \_\_\_\_\_  
Student Name: \_\_\_\_\_  
College Name: Faculty of  
Information Technology  
Dep. / Specialist: \_\_\_\_\_  
Using Dictionary (No)

• ***Answer all Questions***

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<b>First Question</b>	<b>No. of Branches (3)</b>	<b>(40/100)</b>
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**Q1 B1** **(15/40)**

Compare Star topology and Mesh topology stating the advantages, disadvantages and usage of each.

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**Q1 B2** **(10/40)**

Compute the number of links needed to connect 80 devices in a mesh network.

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**Q1 B3** **(15/40)**

Compare the following protocols regarding cabling, topology and transmission speed:

- a) Ethernet
- b) FDDI

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<b>Second Question</b>	<b>No. of Branches (1)</b>	<b>(25/100)</b>
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**Q2 B1** **(25/25)**

State the functions for the following network components pairs:

- a. Network interface card
- b. Router
- c. Bridge

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<b>Third Question</b>	<b>No. of Branches (2)</b>	<b>(35/100)</b>
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**Q3 B1** **(15/35)**

Illustrate the functions of physical and network layers in OSI protocol.

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**Q3 B2** **(20/35)**

TCP/IP Model consists of only five layers. State the function of each.

End of Questions

*Good Luck*