


Course No: ENGI 1220
Course Title: Introduction of
Materials Science
Date: 17/03/2017
No. of Questions: (4)
Time: 45 minutes
Using Calculator (non)

University of Palestine

1st midterm Exam
2nd Semester 2016/2017
Total Grade:

Instructor Name: Dr. Hossam ELAQRA
Student No.: _____
Student Name: _____
College Name: Engineering
Dep. / Specialist: _____
Using Dictionary (No)

Question One:

Chose the Correct answer?

1- According to the origin, materials can be classified to:

- 1- Natural
- 2- Man Made
- 3- Both
- 4- None of them

2- First metals to be discovered:

- 1- Copper and Gold
- 2- Iron and Stainless Steel
- 3- Copper and Silver
- 4- Silver and Gold

3- The most significant discovery in human civilization:

- 1- The fire
- 2- The cement
- 3- The elastomer
- 4- The ceramics

4- Ages are in order of appearance:

- 1- Stone, Bronze, Polymer and Iron
- 2- Stone, Bronze, Iron and Polymer
- 3- , Bronze, Polymer Stone and Iron
- 4- Polymer Stone, Bronze, and Iron

5- The performance of an object is controlled by:

- 1- Its structure
- 2- Its procedure of fabrication
- 3- Both
- 4- Its properties

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6- According to the size, materials can be classified to:

- 1- Micro-Scale
- 2- Macro-Scale
- 3- Nano-Scale
- 4- All above

7- Polymers are:

- 1- Strong
- 2- Ductile
- 3- Insulators
- 4- Soft
- 5- All above
- 6- 2, 3, and 4

8- Metals are:

- 1- Strong
- 2- Ductile
- 3- Insulators
- 4- Soft
- 5- All above
- 6- 1, and 2

9- Ceramics are:

- 1- Strong
- 2- Ductile
- 3- Insulators
- 4- Soft
- 5- All above
- 6- 1 and 3

10- Stone Age was characterized by:

- 1- The use of Poon
- 2- The use of Wood
- 3- The use of Stone

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- 4- All above
- 5- The use of bronze

Question Two:

- 1- Discuss the ElectroneGativity and its effect on bonding?
- 2- Describe the Ionic bonding?

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3- Numerate 4 differences between the primary and the secondary bonds?

	Primary Bonds	Secondary Bonds
Force		
Examples of bonds		
Energy		
Type of materials		

Question Three:

1- Draw the Bohr Atomic Model, showing the difference between Valence and ground state electrons?

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Question Four:

- 1- The difference between graphite and diamond in structure and bonding?

End of Questions
Good Luck