


Course No: DMED 1207
Course Title: General Chemistry-
Final Exam
Date: 11 /01 /2017
No. of Questions: (8)
Time: 2 hours
Using Calculator (Yes)

University of
Palestine

Final Exam
2016/2017

Instructor Name:
Student No.: _____
Student Name: _____
College Name: _____
Dep. / Specialist: _____
Using Dictionary (No)
Total Grade (50)

I. Define the following: (10 Marks)

1) Concentration

2) Ionization energy

3) Electronegativity

4) Oxidation number

5) Isotopes

6) Osmotic Pressure

7) Covalent bond

8) Super saturated Solution

9) Diffusion

10)Molecular Formula

II. Answer with True or False (10 Marks)

1. () atmosphere is the weight of Colum of mercury has a height of 0.5 m on 1 cm² .
2. () the bases have PH level below 7.
3. () A neutron has no net electric charge.
4. () The nitrogen (N) more electro negativity than fluorine(F) .
5. () the covalent bond strong than ionic bond.
6. () Ionization energy needed to unchain electron from the 4th shell is less than that it will be needed in 3rd shell.
7. () atomic number indicates the number of electrons of an atom.
8. () the vapor pressure of a volatile liquid is low.
9. () the pressure increase as the temperature increase .
10. () ionization energy needed to unchain electron from the 4 th shell is less than that will be need in 3rd .

III. Choose the most appropriate answer (10 marks)

1. The vapor pressure of a volatile liquid comparing with anon volatile one is:
 - a. Lower
 - b. Equal
 - c. Higher
 - d. None of the above
2. The boiling point of a pure solvent comparing with that of a solid dissolved in this solvent is :
 - a. Lower
 - b. Equal
 - c. Higher
 - d. None of the above
3. What is the % (w/ v) of solution if 6g dissolved in 10 ml solution:
 - a. 50%
 - b. 70%
 - c. 60%
 - d. 80%
4. The solution boils when a vapor pressure:
 - a. Vapor pressure of the solution is higher than the atmospheric pressure.
 - b. Vapor pressure of the solution is equal to the atmospheric pressure.
 - c. Vapor pressure of the solution is lower than the atmospheric pressure.
 - d. None of the above
5. What the Molarity of 3 grams of HCL in 250 ml solution is :
(a.w.tCL=35 g. a.w.tH=1 g)
 - a. 0.66 M
 - b. 3 M
 - c. 0.33 M.
 - d. 6 M

V. What is the types of bonding are in these compounds or ionic groups and compare strength of ionic ones (5 mark)

1. MgBr₂ (-----).
2. Zn(OH)₂ (-----).
3. O₂ (-----).
4. .NH₃ (-----).
5. .(SO₄)-₂ (-----).

VI. Compare between the following ionic compound & covalent compound (2.5 marks)

	Ionic Compounds	Covalent Compounds
1. Melting Point		
2. Conductivity		
3. Solubility		
4. Strength of Bond		
5. Electronegativity		

VII . What is the type of these reactions (5 marks)

- 1- CaCl₂(aq) + Na₃PO₄(aq) → Ca₃(PO₄)₂(s) + NaCl(aq) (.....)
- 2- Zn + HCl (aq) → ZnCl₂ (s) + H₂(g) (.....)
- 3- 2Cu + O_{2(g)} → 2CuO (.....)
- 4- N₂(g) + 3H₂(g) → 2NH₃(g) (.....)
- 5- HCl + NaOH → NaCl + H₂O (.....)

