


Course No: DMED 1207
Course Title: General Chemistry
Date: 19/04/2018
No. of Questions: (5)
Time: 75min
Using Calculator (Yes)

University of
Palestine

Second Exam
2017/2018

Instructor Name:
Student No.: _____
Student Name: _____
College Name: _____
Dep. / Specialist: _____
Using Dictionary (No)
Total Grade: 30

Question I. Define the following terms " 5 Marks"

1. Homogeneous mixture:

.....
.....
.....

2. Anion:

.....
.....
.....

3. Molecular formula:

.....
.....
.....

4. Compound:

5. Saturated solution :

.....
.....

Question II. True Or False (8 Marks)

1. () Elements of the same group are similar in electronic configuration.
2. () The electron tends to go to high energy shell.
3. () The elements of (2A) group tend to give away one electron.
4. () Nucleus of an atom contains electrons and protons.
5. () Many compounds have same molecular and empirical formula.
6. () Molar weight is Avogadro's No. of atoms.
7. () The electrons rotate around the nucleus in orbits which have different energy levels.
8. () The concentration of a solution depends on the quantity of the solute in a fixed volume.

Question III. Choose the correct answer (10 Marks)

- The Electron configuration of $[\text{Cu}^{29}]^{+2}$ is**
a. $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^9$ b. $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^7$
c. $1s^2 2s^2 2p^6 3s^2 3p^6 4s^1 3d^{10}$ d. $1s^2 2s^2 2p^6 3s^2 3p^6 4s^3 3d^8$
- How many electrons are in the following isotope X_{44}^{56}**
a . 100 b . 44 c . 65 d . 12
- What is the mass percent of sulfur (s) in $\text{Al}_2(\text{SO}_4)_3$? (Al=27 , S=32 , O= 16)**
a . 28% b . 24% c . 38% d . 40%
- Which formula shows the true composition of the compound is**
a . Molecular formulab . Empirical formula
c . Structural formulad . None
- How many mm are in 5.3cm**
a. 0.00053 b. 53
b. 5.3 d. 0.053
- Which of the following is a physical property**
a . density b . color c . conductivity d . all
- Which of the following is chemical property**
a . oxidation numberb. mass c . boiling point d . none
- How many grams in 0.2 M solution of Nacl in 70 ml of water (M.Wt Nacl=58.5 g)**
a . 0.14 g b . 140 g c . 0.819 g d . None
- How many protons are in the following isotope X_{61}^{115}**
a . 115 b . 54 c . 61 d . 176
- What is the concentration of a dilute solution his volume is 500 ml starting with a stock solution of 10 M Hcl and volume 3 ml**
a . 30 L b . 0.06ml c . 150M d . 0.06 M

Question IV. Convert (-25F) into C and K (2 Marks)

.....
.....
.....
.....
.....

