

Course No: DMEC 1303
Course Title: General Chemistry
Date: 24 /03 /2013
No. of Questions: (5)
Time: 1 hours
Using Calculator (Yes)

University of
Palestine

Mid Term Exam
2012/2013

Instructor Name: Mr. Kamal Jarbou
Student No.: _____
Student Name: _____
College Name: _____
Dep. / Specialist: _____
Using Dictionary (No)
Total Grade: 20

Question I. Define the following terms " 5 Marks"

1. Isotopes

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

2. The Mole

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

3. The Compound

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

4. Unsaturated Solution

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

5. Molecular weight

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

Question II. True Or False (5 Marks)

- 1. The most of atomic masse is located in the nucleus ().**
- 2. In periodic table as we go from left to write in periods the atomic number decreases ().**
- 3. The electrons rotates around the nucleus in orbits which have different energy level ().**
- 4. The concentration of a compound depends on the quantity of this compound in a fixed volume ().**
- 5. The elements in second group have one electron in the valance shell ().**

Question III. Choose the correct answer (5 Marks)

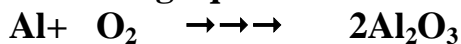
1. How many Cm^3 are in 0.222 dm^3
a . 22.2 Cm^3 b . 222 Cm^3 c . 0.000222 Cm^3 d . 2.22 Cm^3
2. How many grams in 0.2 M solution of NaCl in 70 ml of water
(M.Wt $\text{NaCl}=58.5 \text{ g}$)
a . 0.14 g b . 140 g c . 0.819 g d . None
3. Calculate the number of electrons in Fe^{+2} if the atomic number of $\text{Fe} = 26$
a . 26 b . 28 c . 24 d . 20
4. The element from halogen group is
a . Ca b . Cu c . N d . I
5. The ratio of carbon in CCL_4
a . 0.2 b . 0.4 c . 0.8 d . 0.6

Question IV. Distribute the electrons in X^{27} in term of orbit only(2 Marks)

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

Question V. Do as requested (3 Marks)

a . Balance the following equation



b. How many grams of O_2 are required to react with 0.3 mole of Al ?

c. how many grams of Al_2O_3 will be produced if 12.5 gram of O_2 are completely reacted with Al

atomic w.t of $\text{Al} = 28\text{g}$

atomic w.t of $\text{O} = 16\text{g}$

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

Dotted lines for writing.

*End of Questions
Good Luck*