

Course No: PHSC.1204
Course Title: General Chemistry 2
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No. of Questions: (3)
Time: 1 hr
Using Calculator (No)

University of Palestine



Mid term Exam
2014/2015
Total Grade: 20

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

الاسم باللغة العربية:

Answer the following questions

I- Putsign (\checkmark) on the correct statement and (\times) on the false.

- 1- the surface tension of sea water is larger than normal water
- 2- water + alcohol give a mixed solution (A). the surface tension of solution A is larger than normal water
- 3 - viscosity of 0.1 M NaCl solution is larger than 0.1M acetic acid solution
- 4- the dispersed phase is liquid while the dispersion medium is gas the resulting system is called liquid aerosol
- 5- water + ethanol + surfactant ,give an emulsion
- 6- protein behave as lyophobic molecule towards water
- 7 -Brownian motion means the particles move in straight line
- 8 _ density ,surface tension and viscosity are intensive properties
- 9- the heat capacity of 14 gram of nitrogen is called molar heat capacity
- 10- in a closed system $dM \neq 0.0$, $dE \neq 0.0$ between system and its surrounding
- 11- in case of adiabatic process $dE = 0.0$, $dM = 0.0$ between system and its surrounding
- 12- energy content consist of vibrational and translational energy.

II- Choose the correct answer.

The value of enthalpy is equal to:

- a- $\Delta H = H_2 + H_1$ b- $\Delta H = \Delta E - P \Delta V$
c- $\Delta H = \Delta E + P \Delta V$ d- non of the above

2-the work done on the system has a sign:

A –positive b-negative c- zero d- none of these

3-the value of ΔS IS equal to:

a- $\Delta E/T$ b - $\Delta H/T$ c- $\Delta G/T$ d-none of these

4-for a system contain three component ,the maximum phases that can exist simultaneously are:

a- 3 b-4 c- 5 d-6

5- The invariant point for a phase diagram contain one component means ,the number of phases equal:

a- 2.0 b- 3.0 c-1.0 d- 4.0

III -Draw the phase diagram for sulphur and write the name of each phase

Good luck