

Hemchandracharya North Gujarat University, Patan
Bachelor of Vocation
Pharmaceutical Chemistry Semester-II
Mid SEM Examination, April 2015
Physical Chemistry (PC-212)

Time: 2 hrs

11/04/2015

Marks: 50

Q-1 Answer the given below Questions. [1 mark each] (10)

1. Define thermodynamics.
2. Write down the equation of first law of thermodynamics.
3. What is isolated system? give any one example.
4. Write down the equation of ΔE in the case of work done by the system.
5. Define phase equilibria.
6. Define surface tension.
7. Give the different type of colligative properties.
8. Give the equation of debye-huckel rule.
9. If two different solutions like water & oil are given then whose viscosity will be more?
10. Define saturated solutions.

Q-2 Answer any 4 Questions. [5 mark each] (20)

1. What is surface tension? Describe it in detail.
2. Discuss force of attraction & state its function through dipole moment.
3. State optical rotation.
4. Discuss partition coefficient in detail.
5. Define ideal & real solutions & also describe its colligative properties.

Q-3 Answer any 4 Questions. [5 mark each] (20)

1. Write down zeroth law of thermodynamics.
2. Describe first law of thermodynamics in detail

3. State third law of thermodynamics.
4. Describe phase equilibria in detail.
5. Write second law of thermodynamics.

-----BEST OF LUCK-----