ESSENCE TEST-5

CHEMISTRY

DATE : 11-08-2019 **CLASS 12th PCMB** **MARKS –40** **TIME : 1 hrs**

1. Give two examples of solid Sol and Gel? **(1)**

2. What is the optimum temperature and pH for enzyme catalysed reactions? **(1)**

3. What are positive and negative catalysts? Explain. **(1)**

4. Why do finely divided solids act as good adsorbents? **(1)**

5. Give an equation showing variation of extent of adsorption with concentration of a solution? **(1)**

6. Give two differences between adsorption and absorption? **(2)**

7. Write the four differences between physisorption and chemisorption? **(2)**

8. Define the terms – catalysis and catalyst. **(2)**

9. Give two examples of enzyme catalysed reaction. **(2)**

10. Differentiate between multimolucular and macromolecular colloid? **(2)**

11. Differentiate between lyophobic and lyophillic sol? **(3)**

12. Explain the terms with suitable examples: (i) Alcosol (ii) Aerosol (iii) Hydrosol **(3)**

13. What do you mean by activity and selectivity of catalysts? **(3)**

14. How are colloids classified on the basis of
    (i) Physical states of components (ii) Nature of dispersion medium and
    (iii) Interaction between dispersed phase and dispersion medium? **(3)**

15. Why is adsorption always exothermic? **(3)**

16. What is an adsorption isotherm? Describe Freundlich adsorption isotherm. **(5)**

17. How are the colloidal solutions classified on the basis of physical states of the dispersed phase and dispersion medium? **(5)**