

QP CODE: 203008

Reg. No:

Second B.Pharm (Ayurveda) Degree Examinations October 2018
Physical Pharmacy

Time: 3 Hours

Total Marks: 100

- Answer all questions.

Essays:

(2x10=20)

1. Explain electric properties of colloids.
2. Define adsorption isotherm. Draw various types of adsorption isotherm and explain their behavior

Answer briefly:

(10x5=50)

3. HLB scale
4. Solubilisation
5. Purification of colloids.
6. State Fick's first law of diffusion.
7. Pharmaceutical application of polymer.
8. Differentiate order of reaction and molecularity of a chemical reaction.
9. Thixotropy
10. Define critical micelle concentration. Mention mechanism of micelles formation with suitable examples.
11. Explain Coulter-counter.
12. Discuss factors affecting rate of reaction

Short notes:

(10x3=30)

13. Classify surfactants based on their application.
14. Raoult's law for vapor pressure
15. Define porosity. Write their application in pharmacy.
16. Accelerated stability studies
17. Define intrinsic viscosity. What are their applications
18. Define emulsion. Classify the same.
19. Cone and plate viscometer.
20. Suspension mostly follows zero order. Why
21. Enumerate derived properties of powder. Explain angle of repose in detail.
22. Spreading coefficient
