QP Code: 423006   Reg. No…………………….

Fourth Semester B.Pharm Degree Regular/Supplementary Examinations March 2023
Physical Pharmaceutics II

(2017 Scheme)

Time: 3 Hours   **Max. Marks: 75**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

Essays   **(2x10=20)**

1. Explain the various theories of emulsification
2. Discuss the optical and kinetic properties of colloids

Short Notes   **(7x5=35)**

3. What is oxidation and explain its method of prevention
4. Explain different methods of evaluation of stability of emulsions
5. What are surfactants. Classify them with suitable examples
6. Stability problems of emulsion
7. Derive an equation for Donnan membrane equilibrium
8. Derive an equation for second order reaction kinetics
9. Illustrate Ostwald viscometer with its working.

Answer Briefly   **(10x2=20)**

10. Define stress and strain
11. What are non-Newtonian liquids
12. Why emulsions are thermodynamically unstable
13. What is physical adsorption
14. Define Critical Micelle Concentration
15. What is rheopexy.
16. Define half life
17. Define plastic and elastic deformation
18. What are deflocculated suspensions
19. Define zero order reaction with examples.

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