

QP CODE: 203008

Reg. No:

**Second B.Pharm (Ayurveda) Degree Supplementary Examinations
March (November), 2020**

Physical Pharmacy

Time: 3 Hours

Total Marks: 100

- *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*

Essays:

(2x10=20)

1. State and explain the distribution law along with its limitations. What are its applications.
2. What are the methods by which drugs can be degraded. How the drugs are stabilised against such degradation.

Answer briefly:

(10x5=50)

3. Define dissolution and explain the working of Type I dissolution apparatus.
4. Spreading coefficient and its significance.
5. Describe the HLB classification of surfactants.
6. Explain modified pH – Partition theory.
7. What are adsorption isotherms.
8. Explain microencapsulation and its importance.
9. Explain Ficks' laws of diffusion.
10. Differentiate lyophilic, lyophobic and association colloids based on their general characteristics.
11. Enumerate the derived properties of powders and explain flow property.
12. Explain the properties of non-Newtonian systems.

Short notes:

(10x3=30)

13. Zero order reaction.
14. Specific surface.
15. Thixotropy.
16. Accelerated stability study.
17. Yield value.
18. Porosity.
19. Creaming of emulsion.
20. Schulze-Hardy rule.
21. Pharmacopieal specifications for the storage conditions for pharmaceuticals.
22. Flocculated suspension.
