

**D. PHARM PART-I (R/S) EXAMINATION JANUARY 2025 (ER2020)****A1 – PHARMACEUTICS (ER20-11T)****Time: 3 Hours****Total marks: 80**

**[NOTE:** Indicate the question number correctly for each answer.  
Answers to questions 1-20 should be provided in the first pages as a single unit.  
Give labelled diagrams/flow chart wherever necessary. Use only blue/black ink.]

**Answer all the following.****(1 x 20 = 20)**

1. Liquid dosage form that is applied to the skin with friction is known as----
2. Ocuserts are meant for introduction into----
3. The complete separation of dispersed phase and dispersion medium due to coalescence of globules is termed as ----.
4. Powders that are introduced into the body cavities are known as-----.
5. Cyclone separator works under the principle of-----.
6. Enteric coated tablets are meant to be disintegrated in-----.
7. ----is an act that establishes that a procedure or process will consistently produce accurate results.
8. ---- is the separation of a solid from a fluid by passing through a porous medium.
9. Effervescent granules are a mixture of ---- and ---- with suitable medicaments.
10. In ----suspensions, particles exist as separate entities.
11. Give an example of a natural emulsifying agent obtained from plant source.
12. Give an example of a preservative used in oral preparations.
13. Name the dryer which is used for rapid drying of tablet granules.
14. Name the microorganism used for preparing diphtheria toxoid.
15. Give an example for semisolid o/w emulsion.
16. Give an example of opacifier used in soft gelatin capsules.
17. Write the primary emulsion formula for fixed oils.
18. Give the popular name of 'The Extra Pharmacopoeia'.
19. Name the device that holds the drug that may or may not be in direct contact with it.
20. Name the method used for preparing tinctures from organized drugs.

**Answer any 10 of the following.****(3 x 10 = 30)**

21. Write briefly on any one class of organoleptic additives used in pharmaceutical preparations.

22. Write the salient features of the First edition of Indian Pharmacopoeia.
23. Differentiate between quality control and quality assurance.
24. Give the advantages and disadvantages of rubber as closure.
25. What are the different grades of powders as per I.P.?
26. Write in brief about membrane filters.
27. Explain the working and uses of a double cone blender.
28. Classify the different types of tablets.
29. Define elixirs and give one example.
30. Enlist various methods used for preparing suppositories and explain any one method.
31. What are the advantages and disadvantages of capsules?

**Answer any 6 of the following.**

**(5 x 6 = 30)**

32. Describe in detail about liposomes.
33. Define the term vaccines. Explain the method of preparation of BCG vaccine.
34. Explain about any two evaluation tests used in injections.
35. Classify ointment bases with suitable examples.
36. Explain the stability problems of emulsions.
37. Explain various manufacturing defects in tablets.
38. Describe simple percolation process.

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