

D. PHARM PART-I (R) EXAMINATION APRIL 2023

QP CODE: R23041

Reg. No.....

PHARMACEUTICS (ER20-11T)

Time: 3 Hours

Total Marks: 80

NOTE: Answers to questions 1-20 should be provided in the first pages as a single unit. Give labelled diagrams/flowcharts wherever necessary.

Answer all the following

(1 x 20 = 20)

1. First edition of Indian Pharmacopoeia was published in the year-----.
2. ----- are sweet, aromatic hydroalcoholic preparations intended for oral use.
3. The flocculating agent reduces the ----- and improves the dispersion of solid particles.
4. The process of extraction in which the drug is kept in contact with the menstruum for 15 minutes is called-----.
5. Uneven distribution of colour in tablet is known as-----.
6. Broken piece of glass that acts as a fusion agent in the manufacture of glass is known as - -----.
7. The process of preparing fine emulsion from a coarse emulsion by converting the large globules to small globules is called-----.
8. BCG vaccine contains living culture of the bacillus of Calmette and ----- strain of-----.
9. ----- is incorporated in soft gelatin capsule as plasticizer.
10. ----- is used as a suspending agent in Calamine Lotion I.P.
11. Give an example for sterile powder used externally.
12. A powder of which all the particles must pass through sieve number 44 and not more than 40% through sieve number 85 is called --
13. Give an example for natural colouring agent used in pharmaceutical formulation.
14. Name the vulcanising agent used in rubber.
15. Name the vehicle used in nasal drops.
16. Give an example for anionic emulsifying agent.
17. Tablet that is placed under the skin is called as.
18. Name any one preservative used in injections.
19. Give an example for mineral oil.
20. Name an instrument that works under the principle of sublimation.

Answer any 10 of the following

(3 x 10 = 30)

21. Give the label requirements for eye drops.
22. Write notes on effervescent powders.
23. Explain the working and applications of hammer mill.
24. Differentiate between pastes and creams.
25. Define and classify immunity.
26. Mention the various tests used to identify the type of emulsion.
27. Write notes on pessaries.
28. Name the excipients used in tablet formulation with suitable examples.
29. Explain the method of filling of soft gelatin capsules.
30. Write in brief about sintered glass filters.
31. Give the advantages and disadvantages of glass as packaging material.

Answer any 6 of the following

(5 x 6 = 30)

32. Define the term quality control. Explain the concepts of quality control and quality assurance in pharmaceutical industry.
33. What are the advantages and disadvantages of novel drug delivery systems?
34. Explain the various methods used for preparing ointments.
35. Define the term extraction. Enlist the methods used for extraction. Explain simple maceration process.
36. Classify tablets. Discuss wet granulation method in detail.
37. Explain sterility test for parenteral products.
38. Define suspension. Describe about dry powder for reconstitution.

Code No. S 23041

Time – 3 hours
Max marks-80

Note- Answer any eight questions
All questions carry equal marks
Draw diagrams wherever necessary

1. (a) Classify dosage forms with examples.
(b) With the help of a neat diagram explain the various parts of aerosol packaging. (5+5=10)
2. Write notes on: (a) Cyclone Separator
(b) Filter Press (5+5=10)
3. (a) Explain the various factors affecting evaporation.
(b) What are the different grades of powders? (5+5=10)
4. (a) Differentiate between maceration and percolation process.
(b) Explain the principle, construction, working and uses of fluid energy mill. (5+5=10)
5. (a) Explain the various excipients used in the formulation of tablets.
(b) Write notes on manufacturing defects in tablets. (5+5=10)
6. Write notes on: (a) Filling of soft gelatin capsules.
(b) Membrane filters. (5+5=10)
7. (a) Describe steam distillation process and its applications.
(b) How will you prepare 450 ml of 70% alcohol from 95% alcohol (5+5=10)
8. (a) Explain in detail about moist heat sterilization.
(b) Write notes on film coating of tablets. (5+5=10)
9. (a) Classify immunological products. Explain the method of preparation of BCG vaccine.
(b) Explain the construction and working any one mill used for semi solid mixing. (5+5=10)
10. (a) Explain freeze drying and give its applications.
(b) Write briefly on history and development of Indian Pharmacopoeia. (5+5=10)