

GOVERNMENT OF KARNATAKA BOARD OF EXAMINING AUTHORITY
D. Pharm Part-I Examination (ER-2020) - JANUARY- 2024
PHARMACEUTICS

Time: 3 Hours

Max marks: 80 M

- Note: (i) Answer 6 questions from section A, 10 questions from section B and all questions from section C.
 (ii) Draw diagram wherever necessary.
 (iii) Answer to the point for objective type.

SECTION -A

Long Essay (Answer any six)

6X5=30 M

1. Write the salient features of fourth edition of IP -
2. Explain the principle, construction and working of ball mill with its applications
3. Write the different methods used for the preparation of ointments
4. Explain the theories of filtration
5. Describe the selection criteria for selection of packaging material.
6. What are Injections? Add a note on additives used in injectable preparation.
7. Define NDDS. Classify various types of novel drug delivery system

SECTION -B

Short Essay (Answer any ten)

10X3=30 M

8. Write a note on Oral Controlled drug delivery system
9. Enlist various quality control tests performed for capsules. Explain any one quality control test in detail
10. Write the difference between lotions and liniments
11. Write a note on GMP
12. Write two examples each for preservatives, antioxidants and sweetening agents
13. Describe the principle and construction of Fluidized bed dryer
14. Classify different types of tablets
15. Describe the working of Turbine mixer with a neat labeled diagram
16. Write the working of cyclone separator with a neat labeled diagram
17. Write a note on career opportunities in Pharmacy profession
18. Mention the advantages and disadvantages of glass as material used in pharmaceutical packaging

SECTION -C

Objective type (Answer all questions)

20X1= 20M

19. Define Ointment
20. What are pyrogens
21. Define Extra pharmacopoeia
22. What is percolation
23. Give two examples of vaccines
24. Name any two Targeted drug delivery system
25. Define Quality control
26. Define Total quality management
27. What type of plastic is used in disposable syringes
28. Define the term "sieve"
29. What is the principle behind hammer mill
30. What are effervescent granules?
31. _____ is the Father of Pharmacy
32. The primary emulsion formula used for fixed oils is _____
33. The fifth edition of Indian Pharmacopoeia was published in _____ year
34. Extraction without the aid of heat is _____
35. Match the following.

A

- 1) Type I glass
- 2) Colouring agent
- 3) Menstruum
- 4) Sweetening agent

B

- a) Solvent used for extraction
- b) Borosilicate
- c) Soda lime
- d) Caramel
- e) Saccharine
- f) EDTA
