

GOVERNMENT OF KARNATAKA BOARD OF EXAMINING AUTHORITY  
D. Pharm Part-1 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.

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## SECTION -A

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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

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## SECTION -B

10X3=30 M

Short Essay (Answer any ten)

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

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## SECTION -C

20X1= 20M

Objective type (Answer all questions)

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19. Define Ointment
20. What are pyrogens.
21. Define Drug abuse
22. What is permeation
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 with the aid of heat is \_\_\_\_\_
35. Match the following.

A

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B

- 1) Turbidity
- 2) Coloring agent
- 3) Metal ions
- 4) Sweetening agent

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

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