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GOVERNMENT OF KARNATAKA  
BOARD OF EXAMINING AUTHORITY  
D. Pharm Part-I Examination (ER-2020) - January-2023  
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

6X5=30 M

Long Essay (Answer any six)

1. Describe in detail about the latest edition of Indian Pharmacopoeia
2. What are different types of containers used in Pharmaceutical industry
3. Discuss the theory of filtration
4. Explain the construction and working of double cone blender. Give any two applications
5. Classify different types of tablets with suitable examples
6. Describe ointment bases with suitable examples
7. What is novel drug delivery system? List the advantages and challenges of novel drug delivery systems

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SECTION -B

10X3=30 M

Short Essay (Answer any ten)

8. Explain the importance of pharmacy education in India
9. Mention the advantages and disadvantages of rubber as a pharmaceutical packaging material
10. Describe the mode of action of Preservatives
11. Explain the working of fluidized bed dryer with neat labeled diagram. Give any two applications
12. Differentiate suspension and emulsion
13. Discuss the principle and construction of ball mill
14. Differentiate hard and soft gelatin capsules
15. What are pyrogens and explain the pyrogen test
16. Write a note on oral controlled drug delivery system
17. Describe the basic structure of pharmaceutical manufacturing plant
18. Explain the construction and working of cyclone separator

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SECTION -C

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20X1=20M

Objective type (Answer all questions)

19. Define gels
20. Define pastes
21. Give two examples of sweetening agents
22. Give two examples of chelating agents
23. Define mixing
24. Define size separation
25. What is the disintegration time of hard gelatin capsules?
26. Which type of glass is used to fill dry powders?
27. What type of plastic is used in eye ointment tubes
28. Define percolation
29. Give two examples of suppository bases
30. What are nasal drops?
31. Silverson mixer homogenizer works on the principle of -----
32. The Bengal chemical and pharmaceutical works was the first indigenous industry established in the year ----
33. The particle of — pass through a sieve # 22
34. The first international pharmacopoeia was published in the year ---
35. Match the following.

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- A
- 1) Niosomes
  - 2) Quality control
  - 3) Lacrisert
  - 4) Quality assurance

- B
- a) Aim to prevent defects
  - b) non ionic surfactants based vehicle
  - c) Aim to improve and identify defects
  - d) Is sterilerod shaped device for the treatment of dry eye syndrome
  - e) A thin lens designed to fit over the cornea
  - f) Are sterile preparations multilayered solid or semisolid devices

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