

## **BPH\_C\_804\_L – Pharmaceutics Lab IV**

### **Question Bank**

1. Define Parenteral dosage form.
2. Classify Parenteral dosage form.
3. Give ideal characteristics of Parenteral dosage forms.
4. Define Intra-articular route of drug administration.
5. Define Intradermal route of drug administration.
6. Define Subcutaneous route of drug administration.
7. Define Intramuscular route of drug administration.
8. Define Intravenous route of drug administration.
9. Define Intra-articular route of drug administration.
10. Define Intraspinous route of drug administration.
11. Define Intrathecal route of drug administration.
12. What should be the angle while giving intramuscular injection?
13. What should be the angle while giving Subcutaneous injection?
14. What should be the angle while giving intravenous injection?
15. What should be the angle while giving intradermal injection?
16. What is Small Volume Parenteral (SVP)?
17. What is the fill volume for Small Volume Parenterals?
18. What is Large Volume Parenteral (LVP)?
19. What is the fill volume for Large Volume Parenterals?
20. What are single dose containers in parenterals?
21. What are multiple dose containers in parenterals?
22. Enlist vehicles used in preparation of parenteral dosage forms.
23. Give types of water for pharmaceutical use.
24. Define WFI.
25. What is Sterile Water for Injection?
26. What are different materials used for packaging of parenteral preparations?
27. What are different types of glass?
28. Advantages of glass as a packaging material.
29. Disadvantages of glass as a packaging material
30. What is Hydrolytic Resistance Test?
31. How to distinguish between Type I and II glass while evaluating glass container?
32. What are different methods of Ampoule Sealing?
33. What is pull sealing?
34. What is tip sealing?
35. Advantages of plastic as a packaging material.
36. Disadvantages of plastic as a packaging material
37. What are different tests done for evaluation of rubber closure?
38. Advantages of rubber as a packaging material.
39. Disadvantages of rubber as a packaging material
40. Which injections you have prepared in Laboratory?
41. What precautions need to be taken while preparing Calcium Gluconate Injection IP?

42. Why calcium gluconate 5% replaced with calcium salt?
43. What precautions need to be taken while preparing Sodium Chloride and Dextrose Injection IP?
44. What precautions need to be taken while preparing Ascorbic Acid Injection IP?
45. Why Ascorbic Acid Injection IP can not be stored in amber coloured container?
46. What is leak test? How it is performed for different injections you prepared?
47. Give labelling for parenteral preparations.
48. Define Ophthalmic Preparations.
49. Name the ophthalmic preparations you have prepared in laboratory.
50. Give different types of ophthalmic preparations.
51. What are different materials used for packaging of ophthalmic preparations?
52. Give labelling for ophthalmic preparations.
53. Define sterilization.
54. Give different Methods of Sterilization.
55. Which method of sterilization is generally used for parenteral preparations?
56. What are Biological Indicators?
57. What is aseptic area?
58. What Precautions need to be taken while working in Aseptic Area?
59. What is the importance of particle size determination?
60. How do you perform the particle size determination in laboratory?
61. What is dissolution test?
62. What are the Principle functions of the dissolution test?
63. Which type of dissolution apparatus you have used for you experiment?
64. How many dissolution apparatus are as per IP?
65. What is type I dissolution apparatus as per IP?
66. What is type II dissolution apparatus as per IP?
67. Define Sustained Release Dosage Forms?
68. What is the need of Sustained Release Dosage Forms?
69. What are the advantages of sustained release dosage forms?
70. What are the Disadvantages of sustained release dosage forms?
71. Differentiate sustained release system with other Modified-release delivery systems.
72. What is matrix and reservoir type of system?
73. How to calculate the amount of drug required in sustained release dosage form?
74. What is Initial dose or loading dose ( $D_i$ )?
75. What is Maintenance dose ( $D_m$ )?
76. What are different evaluation tests for tablet?
77. Give specifications for Dissolution test of sustained release tablet as per IP.
78. What is Mucoadhesive Drug Delivery System?
79. What is the need of Mucoadhesive Drug Delivery System?
80. Give advantages of Mucoadhesive Drug Delivery System.
81. Give disadvantages of Mucoadhesive Drug Delivery System.
82. What are the Characteristics of ideal mucoadhesive polymer?
83. Give mechanism of Mucoadhesion.
84. Give targeted sites for mucoadhesion.
85. What are the stages of mucoadhesion?
86. Name the film forming agent used in preparation of mucoadhesive film.

87. Name the polymer used in preparation of mucoadhesive film.
88. Define microencapsulation.
89. Give importance of microencapsulation
90. Name different techniques of microencapsulation?
91. What is phase separation coacervation technique?
92. Name different methods of phase separation coacervation technique.
93. What are different stages of microencapsulation
94. Which microencapsulation technique you have used in your laboratory?
95. Give three important components in preparation of microcapsules.
96. Which core material you have used for microencapsulation?
97. Which coating material you have used for microencapsulation?
98. Which Liquid Manufacturing Vehicle you have used for microencapsulation?
99. What was the Speed of Overhead Stirrer maintained for microencapsulation?
100. Name the Salt Solution used for preparation of microcapsules?