Q. 1. Define Injections. Define water for injection,sterile water for injection
Q. 2. Specifications parameter for parenteral.
Q. 3. Components/additives of parenteral products.
Q. 4. Define Bacterial endotoxins / Pyrogens
Q. 5. Explain Preparation & Monographic testing of water for injection
Q. 6. Q.C. Test/Standard for Water for Injection: As per IP.
Q. 7. Sealing of Ampoules
Q. 8. Type of glass containers.
Q. 9. Q.C. Test/Standard for Glass container.
Q. 10. Procedure of Hydrolytic Resistance test. (No of containers and volume used ).
Q. 11. Q.C. Test/Standard for Rubber closures.
Q. 12. Procedure for preparation of sample for Rubber closures.
Q. 13. Composition of sodium chloride and dextrose injection IP.
Q. 14. Calculation of sodium chloride and dextrose injection IP.
Q. 15. Labelling instruction of sodium chloride and dextrose injection IP.
Q. 16. Composition of Calcium gluconate injection IP
Q. 17. Labelling instruction of Calcium gluconate injection IP
Q. 18. Composition of Ascorbic acid Injection IP.
Q. 19. Role of Ingredients of Ascorbic acid Injection IP.
Q. 20. Category of Ascorbic acid Injection IP.
Q. 21. Labelling instructionof Ascorbic acid Injection IP.
Q. 22. What is Ophthalmic.
Q. 23. Composition of sulphacetamide eye drops BPC.
Q. 24. .Labelling instruction of sulphacetamide eye drops BPC.
Q. 25. Role of Ingredients of sulphacetamide eye drops BPC.
Q. 26. What is eye drops.
Q. 27. Strength of sulphacetamide eye drops BPC.
Q. 28. What is eye ointments.
Q. 29. Composition of Chloramphenicol eye ointment IP.
Q. 30. Category of Chloramphenicol eye ointment IP
Q. 31. Labelling instruction of Chloramphenicol eye ointment IP.
Q. 32. Microencapsulations.
Q. 33. Fundamental consideration of Microencapsulation.
Q. 34. Techniques employed for Microencapsulation.
Q. 35. Advantages of Microencapsulation.
Q. 36. Composition of microencapsulate for Turpentine oil.
Q. 37. Role of Ingredients ofmicroencapsulate for Turpentine oil.
Q. 38. What is Core material.
Q. 39. What is Coating material.
Q. 40. Type of Coating Materials and examples of Coating Materials.
Q. 41. Steps carried outfor Microencapsulation.
Q. 42. Novel drug delivery system (NDDS).
Q. 43. Sustained release systems.
Q. 44. Advantages of Sustained release systems.
Q. 45. Disadvantages of Sustained release systems.
Q. 46. .Composition of sustained release oral tablets of Diclofenac Sodium using hydrophilic release rate retardants.
Q. 47. Composition of sustained release oral tablets of Diclofenac Sodium using hydrophobic release rate retardants.
Q. 48. Calculation of sustained release oral tablets of Diclofenac Sodium using hydrophilic and hydrophobic release rate retardants.

Q. 49. Extra granulating materials of sustained release oral tablets of Diclofenac Sodium using hydrophilic and hydrophobic release rate retardants.

Q. 50. Evaluation parameter of granules (ready for compression) of sustained release oral tablets of Diclofenac Sodium using hydrophilic and hydrophobic release rate retardants.

Q. 51. Define Dissolution and dissolution rate

Q. 52. What is SGF and SIF Explain the need of dissolution

Q. 53. Explain Noyes Whitney equation

Q. 54. What is sink condition . Explain what is Dissolution medium give example of 3 dissolution media routinely used

Q. 55. Explain Dissolution apparatus USP Type I What is the Acceptance criteria for Dissolution of conventional tablet

Q. 56. Explain Dissolution apparatus USP Type II. What is the Acceptance criteria for Dissolution of conventional tablet

Q. 57. What is the Dissolution media for modified dosage form by Method A and Method B

Q. 58. Explain the Dissolution protocol for Poorly water soluble drug

Q. 59. Define Pharmacokinetics. What is the need of p'kinetic studies

Q. 60. Explain the applications of p'kinetic studies

Q. 61. Enlist different types of p'kinetic models. Explain one compartmental open model, IV bolus

Q. 62. Explain the mechanism of Mucoadhesion

Q. 63. What are the different theories of mucoadhesion

Q. 64. What is Buccal drug delivery system and advantages and disadvantages of Buccal Drug Delivery system

Q. 65. What are the components of Buccal Drug Delivery system Explain the formulation components of Diclofenac Buccal Film

Q. 66. What are the evaluation test for Buccal Drug Delivery

Q. 67. Define validation. What is the importance of validation

Q. 68. Explain different types of validation

Q. 69. Explain the following terms : Linearity, specificity, range ,Accuracy, precision , Repeatability,

a. Ruggedness , Reproducibility

Q. 70. What is SOP

Q. 71. What is the purpose and benefits of SOP

Q. 72. Explain SOP of Dissolution apparatus

Q. 73. Explain SOP of Tablet Press

Q. 74. Explain SOP of Coating Equipment

Q. 75. Explain any monograph of API or excipients written in your journal