

PARUL UNIVERSITY
FACULTY OF PHARMACY
B.Pharm. Winter 2019-20 Examination

Semester:7**Subject Code: 08101403****Subject Name: Pharmaceutical Technology-II****Date: 23/11/2019****Time: 10:00am to 01:00pm****Total Marks: 75****Instructions:**

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

Q.1 Essay type Questions. (Any 2 out of 3) (10 marks each) (20)

1. Define Sterile dosage form; write down routes of administration of sterile formulations & discuss the design of an aseptic area in detail.
2. Give Definition, advantages and applications of Aerosol System, Explain the cold-filling process and pressure filling process.
3. Define semisolid dosage form; write down various types of semisolids along with Innovative formulations.

Q.2 Short Essay type Questions. (Any 7 out of 9) (5 marks each) (35)

1. Give Classification of ophthalmic formulations and discuss Evaluation tests for ophthalmic Preparations.
2. Explain in brief about Prefilled syringes.
3. List out various types of Emulsion, Explain evaluation tests for identification of types of Emulsions.
4. Discuss Quality control test of Aerosols in brief.
5. Discuss ideal properties and various types of suppository bases.
6. Discuss the stability of Suspensions from Stock's Law point of view.
7. What are different types of water used in pharmaceutical formulaions, write down Preparation, storage and distribution of Water for Injection (WFI).
8. Write down evaluation tests for Sterile formulations.
9. Definition, Classification and Evaluation parameters of Suspensions.

Q.3 Answer in short. (2 marks each) (20)

1. Draw labeled diagram of Aerosol system & list out various components.
2. Explain Lyophilization and list out Lyophilized products.
3. Discuss additives in Parenteral preparations
4. Give importance and examples of Antioxidants.
5. Define Class 100 area and list of activities conducted in same.
6. Write a note on Dried Human Plasma.
7. Write down the properties of propellants.
8. Discuss Metered Dose Inhalers.
9. Write classification, processing and storage of Blood products.
10. Advantages of Transfusing RBC over Whole Blood?