

**T.Y.B.PHARM. SEMESTER-VI (2011 COURSE) : WINTER -  
2017**

**SUBJECT: DOSAGE FORM DESIGN - III**

Day: **Monday**  
Date: **13/11/2017**

Time: **10.00 AM TO 01.00 PM**  
Max Marks. 80

**W-2017-3839**

**N.B.**

- 1) **Q. No. 1 and Q. No. 5** are **COMPULSORY**. Out of the remaining questions attempt **ANY TWO** questions from each section
- 2) Answers to both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

**SECTION - I**

- Q.1** Answer any **FIVE** (10)
- a) Why ethylene diamine is added in theophylline injection?
  - b) Enumerate various buffers used in parenterals.
  - c) What is class 100 area?
  - d) Draw neat diagram of a Spray dryer.
  - e) Give the composition of calcium gluconate inj. IP
  - f) Discuss IV and IM route of drug administration.
  - g) How antioxidants are selected?
- Q.2** a) Discuss formulation of sterile suspensions. (08)  
b) Discuss how solubility of drug influences the formulation. (07)
- Q.3** a) Give detailed account on freeze drying. (08)  
b) Discuss preparation and storage of sterile water for injection. (07)
- Q.4** Write short notes (**any THREE**) (15)
- a) Endotoxin testing
  - b) The sterilization by radiation
  - c) Sterile dry solids
  - d) HVAC system

**SECTION - II**

- Q.5** Answer any **FIVE** (10)
- a) Draw a neat diagram of an extruder
  - b) What is vulcanization of rubber?
  - c) Discuss design of sleeve stoppers
  - d) Write the formula for TPN.
  - e) What is weathering of glass container?
  - f) Write the composition of type I glass.
  - g) What is coring of rubber closures?
- Q.6** a) Discuss the FFS technology in parenterals (08)  
b) Comment on fractionation of plasma. (07)
- Q.7** a) Discuss formulation of sterile multi electrolyte preparation. (08)  
b) Write a note on sterility testing. (07)
- Q.8** Write short notes (**any THREE**) (15)
- a) Formulation of eye ointment
  - b) Preparation of plastic containers
  - c) Dialysis fluids
  - d) Layout of a double filling unit in parenteral section.

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