

BACHELOR OF PHARMACY (B. PHARM.) (CBCS - 2015 COURSE)
Final Year B. Pharm. Sem-VII : WINTER : 2021
SUBJECT: PHARMACEUTICAL TECHNOLOGY-III

Day : Wednesday
Date : 12-01-2022

W-13721-2021

Time : 02:00 PM-05:00 PM
Max. Marks: 60

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) Figures to the right indicate **FULL** marks.
- 3) Answers to both sections should be written in **SEPARATE** answer books.

SECTION - I

- Q.1** Answer **ANY FIVE** of the following. **[10]**
- a) Enlist parenteral routes of drug administration.
 - b) How the areas in the parenteral manufacturing units are classified?
 - c) Draw a neat and labelled diagram of spray dryer.
 - d) Describe modes of drug degradation.
 - e) What is clean in place and steam in place?
 - f) Enlist tests for evaluation of parenteral products.
- Q.2** a) What are advantages and disadvantages of parental preparations? **[05]**
b) Explain HVAC system in parenterals with its significance. **[05]**
- Q.3** a) Discuss the methods used to produce sterile powder ready for reconstitution. **[05]**
b) Explain plant layout in the production of parenteral products. **[05]**
- Q.4** Write short notes on **ANY TWO** of the following. **[10]**
- a) Vehicles used in parenterals
 - b) Isotonicity
 - c) Endotoxins

SECTION - II

- Q.5** Answer **ANY FIVE** of the following: **[10]**
- a) Describe Dextran as Plasma Volume Expander.
 - b) Explain Total Parenteral Nutrition.
 - c) Describe FFS Technology in Parenterals.
 - d) Draw a labelled diagram of Niosome.
 - e) What are Anti-Coagulants?
 - f) What are different types of Radiation?
- Q.6** a) Discuss types of formulations of LVPs in detail. **[05]**
b) Describe general requirements for manufacturing of ophthalmic formulations. **[05]**
- Q.7** a) Describe collection and storage of Whole Human Blood. **[05]**
b) Discuss Fractionation of Plasma in detail. **[05]**
- Q.8** Write short notes on **ANY TWO** of the following. **[10]**
- a) Absorption of drug from eye
 - b) QC of radiopharmaceuticals
 - c) Elastomers

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