

FINAL YEAR B.PHARM. SEMESTER-VII (CBCS - 2015 Course) :
SUMMER - 2019

SUBJECT : PHARMACEUTICAL TECHNOLOGY – III

Day : Saturday
Date : 27/04/2019

S-2019-4407

Time : 02.00 PM TO 05.00 PM
Max. Marks : 60

N.B.

- 1) **Q.No. 1 and Q. No. 5 are COMPULSORY.**
- 2) Solve **ANY TWO** questions from remaining questions in both the sections.
- 3) Figures to the **RIGHT** indicate **FULL** marks.
- 4) Answer to both the sections should be written in **SEPARATE** answer books.

SECTION – I

- Q.1** Solve **ANY FIVE** questions of the following. **(10)**
- i) Explain weathering of glass containers.
 - ii) Justify-Ethylene diamine is always added in aminophylline injection.
 - iii) Use of prodrugs in the solubilization of SVP.
 - iv) Mannitol solutions are warmed before administration. Why?
 - v) Give a layout of manufacturing plant of SVP.
 - vi) Explain sodium equivalency test in tonicity determination.
 - vii) What is dynamic storage of sterile water for injection?
- Q.2** a) Discuss giving suitable examples, various routes of parenteral drug administration. **(05)**
- b) Discuss sterile parenteral solutions. **(05)**
- Q.3** a) Discuss with the help of diagram 'air treatment in parenteral section'. **(05)**
- b) Discuss various components used in SVP. **(05)**
- Q.4** Write short notes on **ANY TWO** of the following. **(10)**
- i) Sterile dry powders.
 - ii) Freeze dried products
 - iii) Pyrogen testing
 - iv) Stability evaluation of parenterals

SECTION - II

- Q.5** Solve **ANY FIVE** questions of the following. **(10)**
- i) Give the composition of contact lens solution.
 - ii) Draw a labeled diagram of niosome used in LVP.
 - iii) What are concentrated RBC's?
 - iv) What are TPN's?
 - v) What are sterilized LVP's?
 - vi) Discuss the formulation of Ringer lactate solution.
 - vii) What is vulcanization of rubber closures?
- Q.6** a) Discuss composition of plastic containers. **(05)**
- b) Explain FFS technology in LVP. **(05)**
- Q.7** a) Discuss with the help of example the formulation of ophthalmic solutions. **(05)**
- b) Discuss various plasma fractions. **(05)**
- Q.8** Write short notes on **ANY TWO** of the following. **(10)**
- i) Composition of rubber closures
 - ii) Waters used in LVP
 - iii) Sterility testing
 - iv) Plasma substitutes

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