

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

WINTER - 2018

SUBJECT : PHARMACEUTICAL TECHNOLOGY – III

Day : Thursday
Date : 15/11/2018

W-2018-4098

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) What is siliconization of glass containers?
 - ii) Explain how antioxidants are selected?
 - iii) Ethylene diamine is always added to aminophylline injection. Give reason.
 - iv) State the importance of tonicity of the parenteral solution.
 - v) Mannitol solutions are warmed before administration. Give reason.
 - vi) Give two examples of prodrugs used in S.V.P.
 - vii) Draw a neat layout of a parenteral section.
- Q.2** a) Discuss with examples various methods used to improve solubility of drugs in S.V.P. **(05)**
b) Comment on various parenteral routes of drug administration. **(05)**
- Q.3** a) Discuss with the help of schematic diagram water treatment in parenterals. **(05)**
b) Discuss HVAC systems in parenterals. **(05)**
- Q.4** Write short notes on **ANY TWO** of the following. **(10)**
- i) Freeze dried products
 - ii) Pyrogen testing
 - iii) Environmental control zones
 - iv) Stability studies

SECTION - II

- Q.5** Solve **ANY FIVE** questions of the following. **(10)**
- i) Give the composition of intra peritoneal dialysis fluid.
 - ii) What is the composition of contact lens solution?
 - iii) Concentrated RBC's are preferred in case of infants. Give reason.
 - iv) What is dosimetry in radio pharmaceuticals?
 - v) What are specialized LVP's?
 - vi) What is coring of rubber closures?
 - vii) Give the composition of ringer lactate solution.
- Q.6** a) Discuss various insulin preparations. **(05)**
b) Comment on various properties of plastic containers. **(05)**
- Q.7** a) Enumerate various ophthalmic products. Comment on ophthalmic solutions. **(05)**
b) Discuss various plasma fractions. **(05)**
- Q.8** Write short notes on **ANY TWO** of the following. **(10)**
- i) Glass containers
 - ii) IV admixtures
 - iii) Formulations containing radiopharmaceuticals.
 - iv) Liposomes and Niosomes in parenterals

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