

Total No. of Questions : 6]

SEAT No. :

P3144

[Total No. of Pages : 2

[5245]-202

First Year B. Pharmacy (Semester - II)

DOSAGE FORM DESIGN

(2013 Pattern)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Answers to the two sections should be written in separate answer books.*
- 3) *Figures to the right indicate full marks.*

SECTION - I

Q1) Explain theories of emulsions, and its formulation aspects in details. [10]

OR

Discuss different types of suppositories. Add note on evaluation of suppositories.

Q2) Solve any five from the following. [15]

- a) What is target drug delivery system
- b) Note on concept of modified release dosage forms
- c) Discuss the process of solubilization of solute in solvent
- d) Write about Dry suspensions for reconstitution
- e) Write note on HLB and RHLB
- f) Write about Suspensions containing poorly wettable solids
- g) What are quality control aspects of radiopharmaceutical dosage forms

Q3) Write short note on. (Any Two) [10]

- a) What is stoke's law? Give its significance and instability of suspension.
- b) Explain the self-emulsifying drug delivery system
- c) Explain the different Methods of mixing in powders
- d) Note on Displacement value with its significance in suppository.

P.T.O.

SECTION - II

Q4) What are various approaches to enhance the drug solubility. **[10]**

OR

Define suspension? What are ideal properties of suspension? Add an account of physical stability of suspension.

Q5) Solve any five from the following. **[15]**

- a) Differentiate between paste and Jellies.
- b) What are suspending agents
- c) Define Pastes. What are the types of pastes?
- d) Applications of radiopharmaceuticals
- e) Evaluation tests for ointments.
- f) What are Creams? Write its applications.
- g) Evaluation tests for suppositories.

Q6) Write short note on. (Any Two) **[10]**

- a) Types of suspension
- b) Additives in suspension
- c) Ointment bases
- d) Evaluation of creams

