

Total No. of Questions : 6]

SEAT No. :

P1972

[5145]-202

[Total No. of Pages : 2

First Year B.Pharmacy

1.2.2.T: DOSAGE FORM DESIGN

(2013 Pattern) (Semester - II)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Answer 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 emulsion and formulation aspects of emulsion. **[10]**

OR

Define and explain different types of powders. Explain method of preparation of efferevecent granules.

Q2) Answer the following. (Any 5) **[15]**

- a) Methods of mixing powders
- b) Explain the importance of densities in evaluating powders
- c) Add a note on emulsifier
- d) Differentiate between flocculated and deflocculated suspension
- e) Write a note on HLB and RHLB
- f) Explain different properties of powders
- g) Write a note on modified release dosage forms

Q3) Write short note on. (Any 2) **[10]**

- a) Self emulsifying drug delivery
- b) Evaluation tests for suspension
- c) Add a note on angle of repose and its importance in solid dosage forms
- d) Formulation aspects of tooth powder

P.T.O.

SECTION -II

Q4) Define suppositories; explain formulation and evaluation aspects of suppositories. **[10]**

OR

Explain different methods of enhancement of solubility of drugs.

Q5) Answer the following. (Any 5) **[15]**

- a) Write a note on Jellies
- b) Differentiate between ointment and creams
- c) Write the applications of radiopharmaceuticals
- d) Define paste and explain types of paste
- e) Ointment bases
- f) Evaluation tests for ointment
- g) Explain the concept of radioactivity

Q6) Write short note on. (Any 2) **[10]**

- a) Factors affecting rate of dissolution
- b) Mechanism of dissolution
- c) Quality control of radiopharmaceuticals
- d) Formulation aspects of creams

