

SCHOOL OF CHEMICAL AND LIFE SCIENCES
B.Sc. (Hons-Research) Clinical Research
Semester-III, Examination: March 2024

Paper Code: BCR SEC301

Paper Title: Drug Formulations

Time: 2:00 H

Maximum Marks: 45

Write the Roll number at the top immediately on receipt of this question paper. Attempt all questions. All parts of a question must be attempted in continuation. Start answer of a fresh question on a new page. Cite examples wherever necessary.

Q. 1 Answer the following:

[1.5x10=15]

- a) Define displacement value.
- b) Define elixirs and linctus.
- c) ~~What are Jellies and Poultices?~~ Define syrup?
- d) Give examples of antioxidants and preservatives used in liquid orals.
- e) Define bloom strength and write its importance.
- f) Differentiate disintegrants and super disintegrants with examples.
- g) Give advantages of liquid dosage forms.
- h) Define ointment and paste.
- i) ~~Define dusting powders and dentifrices.~~ Define Soft Gelatin Capsules.
- j) Define biphasic dosage form. Give two examples.

Q. 2 Discuss ANY THREE the following:

[3x5=15]

- a) Give an account of different excipients and their functions used in tablets.
- b) Describe quality control tests for hard gelatin capsules.
- c) ~~What are sterile dosage forms? Discuss their merits and demerits.~~ Discuss about the tablets used by oral cavity in detail with example?
- d) Explain methods of increasing solubility.
- e) Distinguish between flocculated and deflocculated suspensions.

Q. 3 Attempt ANY ONE the following:

[1x15=15]

- a) Classify granulation techniques. Describe the wet granulation method along with equipment used in each step.
- b) Elaborate on types, bases, preparation, packaging, labelling and storage of Suppositories.
- c) Describe types of emulsion, emulsifying agents and identification tests. Briefly write about the stability aspects of emulsions.