

M.Sc.(Chem.) Semester - 4 (CBCS) Examination
April/May-2023 (NEW COURSE)
Pharmaceutical Technology (Core)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Q.1(A) Answer the following questions. (04)**
Define the term 'Powder' with brief introduction.
- Q.1(B) Answer the following question. (Any Two) (10)**
 1. Elucidate mean diameter of a particle and its expressions in detail.
 2. Discuss molecular aggregation in detail.
 3. Enlist various size reduction methods and explain any one with figure.
- Q.2(A) Answer the following questions. (04)**
Give an account of following terms: (I) Syrup (II) Tincture
- Q.2(B) Answer the following question. (Any Two) (10)**
 1. Discuss advantages and disadvantages of liquid dosage forms.
 2. Define emulsion? Explain classification of emulsion with figure.
 3. What is suspension? Discuss its ideal characteristics and types.
- Q.3(A) Answer the following questions. (04)**
Define dosage form, give advantages and disadvantages of tablet dosage forms
- Q.3(B) Answer the following question. (Any Two) (10)**
 1. Write various tablet testing parameters, discuss any one in detail.
 2. Write a note on dry granulation method.
 3. Explain following in brief:

I. Dispersion tablet

II. Enteric coated tablet

III. Press coated tablet

IV. Buccal tablet

V. Effervesce Tablet
- Q.4(A) Answer the following questions. (04)**
Give an account on vegetative capsules.
- Q.4(B) Answer the following question. (Any Two) (10)**
 1. Discuss making of hard gelatine capsules in detail.
 2. Discuss evaluation of gelatin as raw material for capsules.
 3. Write introduction, advantages and disadvantages of capsule.
- Q.5(A) Answer the following questions. (04)**
Give two examples in each class of given excipient.
(I) Bulking agents, (II) Emulsifiers, (III) Emollients, (IV) Humectants
- Q.5(B) Answer the following question. (Any Two) (10)**
 1. Give an account on water as key excipient in pharmaceuticals.
 2. What are excipients? write desirable characteristics of excipients.
 3. Give an account of following excipients: a) Antioxidants, b) Coating agents
