

M.Sc.(Chem.) Semester - 4 (CBCS) Examination
May/June-2021 (NEW COURSE)
Pharmaceutical Technology (Core)

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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Q.1 (A) Answer the following question (04)

1. Define the term powder and enlist its bulk and particle properties. (02)
2. Draw the schematic diagram of sieve shaker (02)

Q.1 (B) Answer any two questions out of three (10)

1. Discuss any two bulk properties of powder in detail. (05)
2. Write a note on hot air-drying method for powder preparation. (05)
3. Give an account of particle shapes and its size diameter expression. (05)

Q.2 (A) Answer the following questions (04)

1. Give classification of liquid dosage forms. (02)
2. Write ideal properties of Vehicles. (02)

Q.2 (B) Answer any two questions out of three (10)

1. What is emulsion? discuss classification of emulsions with graphical representation. (05)
2. Give an outline of following for pharmaceutical suspensions: (05)
 - (i) Introduction
 - (ii) Classification of Pharmaceutical suspension
 - (iii) Components of pharmaceutical suspension
3. Write a note on physical instability of emulsions. (05)

Q.3 (A) Answer the following question (04)

1. Define the term tablet and write the various evaluation parameters of tablets.

Q.3 (B) Answer any two questions out of three (10)

1. Write a note on wet granulation method. (05)
2. Distinguish between enteric coated and sustained release tablets (05)
3. Give Introduction, merits and demerits of oral solid dosage forms. (05)

- Q.4 (A) Answer the following question (04)**
1. Give an account of vegetative capsules.
- Q.4 (B) Answer any two questions out of three (10)**
1. Explain the following terms in brief: (05)
 - (i) Bloom Strength
 - (ii) Shell Integrity test
 2. Write a note on manufacturing of HGCs. (05)
 3. Distinguish between type A and type B gelatine and discuss extraction of gelatine from animal sources. (05)
- Q.5 (A) Answer the following questions (04)**
1. Give the name and structure of any two antioxidants and any two coating agents used in tablet formulation
- Q.5 (B) Answer any two questions out of three (10)**
1. Which types of excipients are required for following? Give answer with brief justification. (05)
 - (i) Emulsions
 - (ii) Simple compressed tablets
 2. Discuss the role and ideal properties of excipients (05)
 3. Briefly explain following with example (05)
 - (i) Anti-adherents
 - (ii) Emollients
