

M.Sc.(Chem.) Semester - 4 (CBCS) Examination
August/September -2020 [NEW COURSE]
Pharmaceutical Technology (Core)

Time: 2:00 Hours**Marks: 56****Instructions:**

1. Figures to the right indicate marks.
2. There are five questions in the question paper.
3. Answer any four of the following questions.

Q1 (A)	Answer the following questions	04 Marks
1	Explain particle shape and particle size dimension with graphical representation.	4
Q1 (B)	Answer any two questions out of three	10 Marks
1	Give an account of size reduction of powder.	5
2	Explain Lyophilisation for powder preparation.	5
3	Discuss hot air drying method for powder preparation.	5
Q2 (A)	Answer the following questions	04 Marks
1	Explain types of water used in various pharmaceutical activity.	2
2	Define the term solution and explain classification of solutions.	2
Q2 (B)	Answer any two questions out of three	10 Marks
1	Explain the significance of water as solvent in various oral liquid dosage forms.	5
2	Distinguish between Emulsion and Suspension with example.	5
3	Enlist types of oral liquids and explain the advantage and disadvantages of oral liquids.	5
Q3 (A)	Answer the following questions	04 Marks
1	Write objective of Prolonged release tablet.	2
2	Discuss the advantages of tablet dosage form.	2
Q3 (B)	Answer any two questions out of three	10 Marks
1	Explain Wet Granulation method in detail.	5
2	Discuss various tools for the evaluation of tablets.	5
3	Define the terms Tablet and briefly explain its types.	5
Q4 (A)	Answer the following questions	04 Marks
1	Briefly explain about type A and type B gelatine.	2
2	Name the different ingredients used in the preparation of hard gelatin capsules.	2
Q4 (B)	Answer any two questions out of three	10 Marks
1	Write a note on manufacturing of hard gelatin capsule cell.	5
2	Give brief elucidation of capsule, capsule additives and its size.	5
3	Discuss various quality control aspects for capsule dosage form.	5
Q5 (A)	Answer the following questions	04 Marks
1	Give brief detail for following as excipients (i) Antioxidants (ii) Humectants	2
2	Give brief account of 'Sialagogues, as excipients.	2
Q5 (B)	Answer any two questions out of three	10 Marks
1	Name the various excipients used in oral formulation and discuss ideal properties of excipients.	5
2	Discuss the role of Binders and Disintegrants in oral solid formulations.	5
3	Give the introduction and explain the role of excipients in formulation	5