

Q1A	Explain different types of tablets in detail	7 Marks
Q1B	Discuss the different types of tablet coating; subsequently, explain the working principle and distinguishing features of the three major tablet coating equipment.	7 Marks
OR		
Q1A	Define Tablets. Give its ideal properties, advantages and disadvantages.	7 Marks
Q1B	Explain in detail the function and specific examples of at least five major categories of excipients used in the formulation of compressed tablets.	7 Marks
OR		
Q2A	Explain the sequential steps involved in the production of a hard gelatin capsule shell.	7 Marks
Q2B	Discuss the formulation, preparation and packaging of shampoo and hair conditioner.	7 Marks
OR		
Q2A	Explain the different methods used for filling hard gelatin capsules in detail.	7 Marks
Q2B	Discuss the formulation, preparation, and packaging of cosmetic skin care products. Highlight the role of key ingredients used in these products.	7 Marks
OR		
Q3A	Explain the fundamental principles of formulation and the specific methods of preparation employed for sterile ophthalmic pharmaceutical products.	7 Marks
Q3B	Define nanosuspensions in the context of drug delivery and detail the established methodologies for their preparation.	7 Marks
OR		
Q3A	Describe the distinct established methods and requisite quality standards for the preparation of Water for Injection (WFI).	7 Marks
Q3B	Elucidate in comprehensive detail the design, functionality, advantages, and manufacturing considerations pertinent to prefilled syringes.	7 Marks

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Q4A	Explain the various physical tests performed during the evaluation of tablets and their significance.	7 Marks
Q4B	Explain the content uniformity and leak tests for sterile dosage form.	7 Marks
OR		
Q4A	Describe the evaluation tests conducted for hard gelatin capsules.	7 Marks
Q4B	Explain the disintegration and dissolution tests performed for tablet evaluation.	7 Marks
Q5 Answer the following questions (Any Seven)		
14 Marks		
I	Define compression and compaction in the context of tablet manufacturing.	2 Marks
II	List two common tablet coating defects and their possible causes.	2 Marks
III	List two advantages and two disadvantages of tablet dosage forms.	2 Marks
IV	Differentiate between gelatin and non-gelatin capsules with one example each.	2 Marks
V	Mention the components used in the formulation of soft gelatin capsule shells.	2 Marks
VI	Mention any two components used in shampoo formulations and their function.	2 Marks
VII	Define terminal sterilization.	2 Marks
VII	What is the difference between purified water and WFI?	2 Marks
IX	What is the role of HEPA filters in aseptic areas?	2 Marks
X	In ophthalmic evaluation, what is the primary risk associated with a solution being significantly hypotonic?	2 Marks
XI	What is the fundamental difference between the Sterility Test and the Clarity Test for sterile products?	2 Marks
XII	Name the two primary tests performed to ensure the quality of the contents of soft gelatin capsules.	2 Marks

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