2-/41

0205N150

Candidate's Seat No :_____

MSc Sem.-2 Examination

408

Pharma Science

Time : 2-30 Hours] **May-2025** **[Max. Marks : 70**

Q1A	Write a Note on Different Parts of Prescription in brief along with format.	7 Marks
Q1B	Describe the method of calculating a child's dose based on body surface area. Include the formula and an example.	7 Marks
	OR	
Q1A	Enlist the steps involved in handeling of prescription and explain in brief.	7 Marks
Q1B	What is Clarke's rule for dose calculation? How does it differ from Catzel's rule? Explain with suitable examples.	7 Marks
Q2A	Define liquid dosage forms. Explain their advantages and disadvantages in detail.	7 Marks
Q2B	Explain the role and selection criteria of flocculating agents in suspensions with suitable examples.	7 Marks
	OR	
Q2A	Describe the composition, preparation, and uses of syrups and elixirs.	7 Marks
Q2B	Explain the criteria for selection and ideal properties of excipients used in liquid dosage forms.	7 Marks
Q3A	Explain the different types of semi-solid dosage forms with definitions and suitable examples.	7 Marks
Q3B	Discuss the classification and ideal properties of bases used in the formulation of semi-solid dosage forms.	7 Marks
	OR	
Q3A	Write a detailed note on gelling agents used in semi-solid formulations with examples.	7 Marks
Q3B	List and explain the different methods of preparation of semi-solid dosage forms.	7 Marks
Q4A	What are tinctures and fluid extracts? Compare their preparation methods and uses with examples.	7 Marks
Q4B	Explain different types of nasal preparations and their therapeutic applications.	7 Marks
	OR	
Q4A	What are preservatives? List their types, selection criteria, and give examples used in liquid formulations.	7 Marks
Q4B	Explain Young's formula and Fried's formula used in pediatric dose calculations. Provide example problems for each.	7 Marks
Q5	**Answer the following questions (Any Seven)**	**14 Marks**

(P.T.O)

N-150-2

I	What is the metric equivalent of 1 tablespoonful in domestic measures?	2 Marks
II	Mention two advantages of using nasal sprays.	2 Marks
III	Which rheological behavior is exhibited by structured vehicles in suspensions?	2 Marks
IV	Define creaming in emulsions and state whether it is a reversible or irreversible process.	2 Marks
V	What is the role of co-solvents in liquid dosage forms? Give two examples.	2 Marks
VI	Name any two commonly used preservatives in liquid formulations.	2 Marks
VII	What is the purpose of using buffering agents in oral liquid dosage forms?	2 Marks
VII	Mention any two ideal physical properties of a semi-solid base.	2 Marks
IX	Give two examples of preservatives used in semi-solid preparations.	2 Marks
X	What is the function of a humectant in semi-solid dosage forms?	2 Marks
XI	Name any two-equipment used for mixing phases in the preparation of semi-solids.	2 Marks
XII	Define a semi-solid dosage form.	2 Marks

BEST OF LUCK