		Time: 2 Hours Marks:	: 40
	N. B	: (1) All questions are compulsory.(2) Figures to the right indicate full marks.(3) Draw neat labelled diagram wherever necessary.	
Ω1	(a)	Cive any two evenues of tests wentermed for the first of the first of	
Q1	(a) (b)	Give any two examples of tests performed for characterization of excipients Mention the roles/functions of the following excipients 1) Glycerol 2) Lactose	
	(c)	Give two examples of artificial flavours	
	(d)	Enlist any two excipients used for enhancing solubility of active pharmaceutical ingredient	
	(e)	Explain with suitable examples the advantages of co-processed excipients	2
	(f)	Give the classification of polymers used in controlled release oral dosage forms.	2
	(g)	Illustrate with suitable examples the role of excipients	2
Q2			
	(a)	Discuss in brief safety aspects of excipients used for parenteral dosage forms	2
	(b)	Enlist different permeation enhancers and mention in brief the mechanism of action of any one permeation enhancer.	2
	(c)	Discuss sweeteners used in pharmaceutical products	2
Q3			
	(a)	Explain in brief with suitable examples the need for appropriate storage conditions to maintain functional properties of excipients.	3
	(b)	Mention specific characterization tests performed on co-processed excipients	3
Q4	(a)	Mention in brief the significance of selecting appropriate excipients to avoid interaction with active pharmaceutical ingredients. OR	3
	(a)	Mention in brief the significance of selection of packaging material with respect to interaction with excipients	
	(b)	Mention in detail the functions, mechanism of action and examples of preservative agents.	3
Q5	(a)	Write a note on Starch with respect to its source, physicochemical properties, manufacturing and safety aspects	3
	3000	OR	
	(a)	Write a note on Talc with respect to its source, physicochemical properties, manufacturing and safety aspects	
	(b)	Explain the properties and role of Hydroxy Propyl Methyl Cellulose as excipient	3

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Q6	(a)	Discuss in brief the need for harmonization of standards of excipients	V9, 25, 3
		OR OR	12 V
	(a)	Discuss in brief Pharmacopeial standards of excipients.	ST ST ST
	(b)	Discuss about the chemical nature, function and safety of Glyceryl	
		monostearate.	
			5 T
			3000
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