PCE-MIP102T

Exam Date & Time: 09-Mar-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

Pharmaceutical Formulation Development [PCE-MIP102T]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

Answer the following (19	0 marks x 5 = 50 marks)
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1)	Discuss on types of stability studies to be performed during pre-formulation stages of formulation development.	(10)
2)	Explain hydrotropic solubilisation technique.	(10)
3)	Describe Zero order and Korsemeyer-Peppas dissolution models.	(10)
4)	Discuss in detail on pH and Tonicity considerations while selecting suitable excipients for developing stable sterile formulations. Give examples.	(10)
5)	Explain stability studies of a new formulation as per ICH guidelines.	(10)
	SECTION - B	
Answer a	all the questions.	
Answer t	he following (5 marks x 5 = 25 marks)	
6)	Briefly discuss on study on partition coefficient during Pre-formulation period.	(5)
7)	Write on cyclodextrin complexes in solubility enhancement.	(5)
8)	Briefly write about any two levels of IVIVC correlation.	(5)

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9)	What is the importance of stability study? Briefly explain with examples.	(5)
10)	What is a significant change during stability study? Give examples.	(5)

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