Seat No.: \_\_\_\_\_

## PARUL UNIVERSITY FACULY OF PHARMACY M. Pharm. Winter 2022- 23 Examination

Enrolment No.

Semester: 1 Subject Code: MPA102T Subject Name: Advanced Pharmaceutical Analysis Instructions:		Date: 15/03/2023 Time: 10:00am to 1:00pm Total Marks: 75
2. Make suitable assumptions wherever necessary.		
Q.1	Essay Type Questions. (any 2 out of 3) (15 Marks Each)	(30)
1.	Give a detailed note on classification, limits and analytical procedure for re-	porting of
	residual impurities. Write in detail about Elemental Impurities its classification	tion, control and
	potential source.	
2.	Write a note on WHO stability studies and explain in detail about biological	test and assay of
	Adsorbed Tetanus vaccine.	
3.	The regulatory requirements for HPTLC finger printing in stability testing of	f
	Phytopharmaceuticals. Explain basic principles and production of antibodies	S.
Q.2	<b>Short Essay Type Questions. (any 5 out of 6)</b> (5 Marks Each)	(25)
1.	Write note on listing of degradation products in specifications.	
2.	Describe the methods of C, H, N and S analysis with principle.	
3.	Write a note on accelerated stability testing & shelf-life calculation as per IC	Н.
4.	Write a note on impurity profiling with respect to photostability.	
5.	Write a note on PCR.	
6.	Write a note on Enzyme IA.	
Q.3	Short Answers. (2 Marks Each)	(20)
1.	Classify Impurities in drug substances.	
2.	What is HPLC finger printing?	
3.	What is stability study protocol?	
4	Write about test parameters and sampling frequency in long-term stability st	udies.
5.	State any two guidelines for photosensitivity testing.	
6	Describe about Stability zones.	
7.	Write biological test of Oxytocin.	
8.	What is Heparin sodium I.P? Explain its assay.	
9.	Write application of IA.	

10. Write principle of Radioimmunoassay.