(3 Hours)

[Total Marks: 80]

N.B.	1) 2) 3)	Q.No. 1 is compulsory. Attempt any 3 questions from Q.No. 2 to 6. All questions carry equal marks	
	3)	An questions early equal marks	
Q1.	Ans	swer the following:-	[20]
	a.	Write a note on Classification of drugs	
	b.	Explain the role of carbohydrates as drug targets	
	c.	Write short note on Antisense therapy	
		Discuss the production of Hormones as biopharmaceutical agents	•
Q2.	a.	Which molecules in the body can act as drug targets? Explain in detail about	[10]
		different drug targets	
	b.	Give details of drug metabolism in the <i>in vivo</i> system	[10]
Q3.	a.	Describe anticancer drugs used as Antimetabolites	[10]
	b.	Describe antiviral drugs used against RNA viruses	[10]
Q4.	a.	Write a note on Patenting and regulatory affairs related to drug discovery and development	[10]
	b.	Write a detailed note on clinical trials in drug development	[10]
Q5.	a.	What are Opiods? Describe the features of Opiod Anelgesics	[10]
	b.	Explain the mechanism of Drug resistance	[10]
Q6.	a.	Describe the production of Hormones and Cytokines as biopharmaceutical	[10]
		agents	[10]
	b.	Describe the role of Biopharmaceuticals in treatment of various health	[10]
		diseases with examples	
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