Time: 3 hours





Max. Marks: 70

II B. Pharmacy I Semester Supplementary Examinations, Oct/Nov - 2020 PHARMACEUTICAL BIOCHEMISTRY

		 Note: 1. Question paper consists of two parts (Part-A and Part-B) 2. Answering the question in Part-A is Compulsory 3. Answer any FOUR Questions from Part-B 	
		<u>PART –A</u>	
1.	a)	Write the functions of cell membrane.	(2M)
	b)	What are essential fatty acids?	(2M)
	c)	Why do we call glucagon a diabetogenic compound?	(2M)
	d)	What is hypercholesterolemia?	(2M)
	e)	Write in brief on protein turnover.	(2M)
	f)	What is mRNA?	(2M)
	g)	Write the biological significance of ATP.	(2M)
		PART -B	
2.	a)	Write in detail on chemical constitution of cell membrane.	(7M)
	b)	With a neat sketch explain the structure and function of mitochondria.	(7M)
3.	a)	Explain how amino acids can be used for energy production in our body?	(7M)
	b)	Discuss the biological significance of HMP pathway.	(7M)
4.	a)	With a neat scheme explain the beta-oxidation of fatty acids.	(9M)
	b)	Explain why fatty acids are considered as high energy substances?	(5M)
5.	a)	Write the biochemical role of sodium, potassium and chloride.	(9M)
	b)	Discuss the significance of folic acid.	(5M)
6.	a)	With a neat sketch explain the process involved in protein synthesis.	(9M)
	b)	How do gene mutations result in a disease?	(5M)
7.	a)	Classify enzymes with examples. Write in detail on the role of pH and temperature on activity of an enzyme.	(7M)
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b) Write a short note on enzyme inhibitors. (7M)

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