II B. Pharmacy I Semester Regular Examinations, Oct/Nov - 2017 PHARMACEUTICAL BIOCHEMISTRY

Time: 3 hours Max. Marks: 70

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)	What is the role of cholesterol in cell membrane?	(2M)
	b)	Write in brief on Vit A.	(2M)
	c)	What is diabetes?	(2M)
	d)	What is "bad cholesterol"?	(2M)
	e)	Write identification tests for proteins.	(2M)
	f)	Write the biochemical role of Ca ⁺²	(2M)
	g)	Write in brief on lyases.	(2M)
		PART -B	
2.	a)	With a neat sketch explain the biochemical organization and function of mitochondria. Add a note on mitochondrial disorders.	(10M)
	b)	Write short notes on vesicular storage and delivery of biochemicals.	(4M)
3.	a)	What is glycogen? Write in detail on glycogenesis.	(9M)
	b)	Discuss the role of insulin in glucose homeostasis.	(5M)
4.	a)	With a neat sketch explain beta-oxidation of fatty acids. Add a note on metabolism of unsaturated fatty acids.	(10M)
	b)	Why fatty acids are considered as high energy resources?	(4M)
5.	a)	What are vitamins? Classify with examples. Write in detail on water soluble vitamins.	(10M)
	b)	Discuss the chemical constitution of DNA.	(4M)
6.	a)	Write in detail on Urea cycle.	(8M)
	b)	Outline the metabolism of phenylalanine. Add a note on its biological significance.	(6M)
7.	a)	What is a co-enzyme? Write in detail on co-enzymes involved in the functioning of oxidoreductase enzymes.	(9M)
	b)	Discuss the significance of enzyme inhibitors in health and disease.	(5M)