Bachelor of Science (B.Sc.) (CBCS Pattern) First Semester USBCT-C01 - Biochemistry Paper-I (Human Physiology)

P. Pages : 2 Time : Three Hour				GUG/W/18/11540 Max. Marks : 50	
	Notes :	1. 2.			
1.			is blood coagulation? Give name of clotting factors. Explain extrinsic mechanism of clotting.	10	
			OR		
	a)	Discuss the hemoglobin structure.	21/2	
	b)	Give the functions of WBCS.	21/2	
	c)	Write a note on thalassemia.	21/2	
	d)	Discuss the role of Vitamin 'K' in blood clotting.	21/2	
2.	E	Discu	ass the molecular organization of muscle fiber.	10	
			OR		
	a)	Discuss digestion of protein in pancreatic juice.	21/2	
	b)	Write short note on digestion of lipids.	21/2	
	c)	Discuss mechanism of absorption of carbohydrates.	21/2	
	d)	Discuss the sliding mechanism of muscle contraction.	21/2	
3.	Ľ	Discu	uss in detail functions of male & female sex hormones.	10	
			OR		
	a)	Draw well labelled diagram of multipolar neuron Enlist types of neuron.	21/2	
	b)	Write a note on a Impulse generation.	21/2	
	c)	Discuss spermatogenesis with diagram.	21/2	
	d)	Give the functions of HCG hormone.	21/2	
4.	C	Bive	the functions of Adrenalin, nor-adrenalin & thyroxin hormone.	10	

a)	What are hormones? How they are classified on the basis of their chemical nature.	21/2	
b)	Explain the mechanism of action of peptide hormone.	21/2	
c)	What is second messenger? Draw the structure of cAMP.	21/2	
d)	Give the functions of parathyroid hormone.	21/2	
Answer any ten from following.			
a)	What is chloride shift?		
b)	Name any two blood anticoagulants.		

- c) Give two functions of RBCs.
- d) Name the digestive juices involved in protein digestion.
- e) Name the organ which secrete hydrochloric acid.
- f) Name the monomer from which actin filament is formed.
- g) What is cholinergic transmission?
- h) Define the term Oogenesis.
- i) Draw structure of Progesterone.
- j) Give the function of TSH.
- k) Draw the structure of cGMP.
- 1) Name two hormone secreted by Pituitary gland.

5.