

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

P. Pages : 2

Time : Three Hours



GUG/W/23/11540

Max. Marks : 50

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1. Enlist the factors participate in blood coagulation. Describe in detail extrinsic mechanism of blood clotting. **10**

OR

- a) Discuss the function of WBC. **2½**
- b) Give composition of blood. **2½**
- c) Write a note on thalassemia. **2½**
- d) Discuss role of vitamin k in blood clotting. **2½**

2. Discuss in detail molecular organization of muscle fiber. **10**

OR

- a) Describe the digestion of carbohydrates in mouth. **2½**
- b) Write a note on absorption of protein. **2½**
- c) Write a note on sliding filament theory for muscle contraction. **2½**
- d) Write short note on digestion of lipid. **2½**

3. Write a note on. **10**

- i) Oogenesis.
- ii) Spermatogenesis.

OR

- a) Draw well diagram of neuron? Enlist types of neuron. **2½**
- b) Describe the generation of impulse. **2½**
- c) Give functions of LH (luteinizing hormone). **2½**
- d) Give the functions of HCG hormone. **2½**

4. Enlist the hormones of pituitary gland and give the functions of each hormone. **10**

OR

- a) Give classification of hormone based on their chemical nature. **2½**

- b) What is second messenger? Draw structure of cAMP. 2½
- c) Explain the mechanism of action of peptide hormone. 2½
- d) Give the functions of thyroid hormone. 2½

5. Attempt **any ten** from following.

- a) What is Bohr's effect? 1
- b) Give one function of platelets. 1
- c) Name the two anticoagulant. 1
- d) Name juices involve in protein digestion. 1
- e) Name the enzyme present in pancreatic juice responsible for lipid digestion. 1
- f) Name the monomer present in actin filament. 1
- g) What is cholinergic transmission? 1
- h) Give one the function estrogen. 1
- i) What is saltatory conduction of nerve impulse? 1
- j) Pancreas is both endocrine as well as exocrine gland (True or false). 1
- k) Name the gland which synthesizes melanin. 1
- l) Define hormone. 1
