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PGDPPN-1, M.Sc. (DFSM)-1
1st Year Examination, Academic Batch 2018
Applied Physiology

Time : 3 Hours]

[Max. Marks : 100

Note. (A) Attempt any **five** questions. (B) Each question carries equal marks. (20*5)

Q. 1 (a) What are the functions of Skeletal System?

(b) Write short notes on:-

- (i) Reflux Action
- (ii) Function of Hypothalamus
- (iii) Cerebrospinal Fluid
- (iv) Platelets

Q. 2 What is GFR ? Discuss the factors affecting GFR. Describe the formation of urine through Selective absorption process?

Q. 3 Fill in the blanks:-

- (1) As anticoagulant which is used in VIVO as well as invitro is.....
- (2) Blood group antibodies (agglutinins) are present in the.....
- (3) Blood group antigens (agglutenogens) are present in the.....
- (4) A common disorder associated with low R.B.C. count is called.....
- (5) EFG is the electrical activity of.....
- (6) Transmission of impulses from neuron to neuron takes place at.....
- (7) Hypothalamus controls.....,,,
- (8) Average 'Normal Heart' rate is about.....
- (9) B.P. is usually measured by an instrument called.....
- (10) Normal blood volume in human is about.....

Q. 4 Define cell and draw the structure of cell. Enumerate the function of plasma Membrane.

Q.5 Name the enzymes of the gastrointestinal tract? How do they help in the digestion of various food stuff.

Q. 6 Discuss the structure and functions of thyroid gland?

Q.7 What are the blood groups? What is their importance in blood transfusion?

Q. 8 Draw a labelled diagram of a nerve cell. Explain the process of synaptic transmission.