2014

(November)

ZOOLOGY

(Major)

Course: 503

(Animal Physiology)

Full Marks: 48
Pass Marks: 19

Time: 2 hours

The figures in the margin indicate full marks for the questions

Answer Question No. 1 and any three from the rest

- 1. (a) Fill in the blanks: 1×5=5
 - (i) Muscle become rigid during rigor mortis due to loss of ——.
 - (ii) Pepsinogen is converted into active pepsin by ——.
 - (iii) Hirudin is an —— found in salivary glands of leech.
 - (iv) Oxyhemoglobin after giving out its oxygen is called hemoglobin.

- (v) During urine formation hormone promotes the reabsorption of Na⁺ and water
- (b) Write True or False:

 $1 \times 5 = 5$

- (i) In human heart, SA node is present in left auricle.
- (ii) In a sensory neuron, impulse flows from axon to the cyton.
- (iii) Lymph contains large number of erythrocytes.
- (iv) Pulmonary veins carry pure blood.
- (v) Bilirubin is greenish in colour and is found in the bile of gallbladder.
- (c) Write short notes on (any two): $4\times2=8$
- designation of the design of t
 - (ii) Impact of drugs in society
 - (iii) Carbon monoxide poisoning
- 2. What is urine? Draw and describe how urine formation is regulated by nervous and endocrine system.

 1+3+3=10
- 3. What is reflex? How many reflexes are found? Explain simple reflex arc with suitable diagram.

 1+2+4+3=10

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- 4. Mention the names of carbohydrate splitting enzymes and their functions. Write the mechanism of protein absorption. 2+3+5=10
- 5. Differentiate between the following (any two): $5\times2=10$
 - (a) Myelinated and Non-myelinated nerve fibre
 - (b) Coronary circulation and Cardiac circulation
 - (c) Actin and Myosin
