V / Zoo (vi)

2014

(5th Semester)

ZOOLOGY

Paper No. : ZL-VI

(Animal Physiology)

Full Marks : 55

Time : 2 hours

(PART : B—DESCRIPTIVE)

(*Marks* : 35)

The figures in the margin indicate full marks for the questions

1. Write a detailed note on digestion of different parts of alimentary canal in mammals. 7

Or

What is respiration? Explain different types of respiration.

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2. What is blood coagulation? Discuss the cascade of blood coagulation. 2+5=7

Or

Write the structure and functions of haemoglobin. 4+3=7

3. What is excretion? Give an account of urine formation in mammals. 2+5=7

Or

Describe different types of nitrogenous waste in ammonotelic animals. 7

4. What are different types of muscle? Give an account of the ultrastructure of a skeletal muscle. 3+4=7

Or

What are different types of muscle protein? 7

5. What is neuron? Describe the transmission of nerve impulse in a non-myelinated nerve fibre. 2+5=7

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(PART : A—OBJECTIVE)

(*Marks* : 20)

Answer **all** questions

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SECTION—A

(*Marks* : 5)

Put a Tick (✓) mark against the correct answer in the brackets provided : 1×5=5

1. Which of the following is a carbohydrate splitting enzyme?

(a) Amylase ( )

(b) Lipase ( )

(c) Dipeptidase ( )

(d) Carboxypeptidase ( )

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2. Which of the following contributes in blood coagulation?

(a) Ca++ ( )

(b) Fibrinogen ( )

(c) Prothrombin ( )

(d) All of the above ( )

3. Glomerulus is mainly concerned with

(a) filtration ( )

(b) reabsorption ( )

(c) secretion ( )

(d) None of the above ( )

4. Non-striated muscles are found in

(a) heart ( )

(b) alimentary canal ( )

(c) heart and alimentary canal ( )

(d) None of the above ( )

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5. Which of the following is characteristic features of sodium pump?

(a) Outwards movement of calcium ion ( )

(b) Outwards movement of sodium ion ( )

(c) Inwards movement of calcium ion ( )

(d) Inwards movement of sodium ion ( )

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SECTION—B

(*Marks* : 15)

Write short notes on the following : 3×5=15

1. Intracellular digestion

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2. Cardiac cycle

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3. Ureotelic animals

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4. Muscle fatigue

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5. Synapse

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