

(6 pages)

Reg. No. : _____

Code No. : 30392 E Sub. Code : AMZO 53

B Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2023.

Fifth Semester

Zoology - Core

ANIMAL PHYSIOLOGY AND BIOCHEMISTRY

(For those who joined in July 2020 only)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The reserve carbohydrate in animals
(a) Glucose (b) Sucrose
(c) Glycogen (d) Starch
2. Waxes are
(a) Protein (b) Carbohydrate
(c) Amino acid (d) Lipid

8. The Junction between two neurons is called
(a) Synapses (b) Synaptic knob
(c) Synaptic cleft (d) All the above
9. The B cells of Islets of langerhans secrete
(a) Glucagon (b) Insulin
(c) Ptyaline (d) Proline
10. Hyper secretion of Adrenal Cortex causes
(a) Addison's Disease
(b) Cushing's syndrome
(c) Myxoedema
(d) Graves Diseases

PART B — (5 × 5 = 25 marks)

Answer ALL questions by choosing (a) or (b).

Each answer should not exceed 250 words.

11. (a) Write about the classification of Carbohydrate.
Or
(b) Describe the structure and functions of glycoprotein.

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3. Number of ATP releases during the metabolism of one Glucose molecules
(a) 42 (b) 38
(c) 15 (d) 30
4. Ptyalin digests
(a) Protein (b) Carbohydrates
(c) Lipid (d) Minerals
5. The impulse for the heart beat originates from
(a) Purkinji fibre (b) AV Node
(c) SA Node (d) Bundle of His
6. The normal blood pressure in man is
(a) 120/80 (b) 80/120
(c) 80/100 (d) 100/80
7. Group of muscle fibres form a bundle is called
(a) Epimysium (b) Tendon
(c) Fasciculi (d) Perimysium

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12. (a) Explain the classification of Enzymes.
Or
(b) Describe the role of carbohydrate digestion in man.
13. (a) Explain the O₂ transport.
Or
(b) Explain the structure of Nephron with neat labelled diagram.
14. (a) Explain the process of Muscle contraction.
Or
(b) Explain the types of Neurons.
15. (a) Write short note on Gigantism and Acromegaly.
Or
(b) Write different phases of menstrual cycle.

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[P.T.O.]

PART C — (5 × 8 = 40 marks)

Answer ALL questions by choosing (a) or (b).

Each answer should not exceed 600 words.

16. (a) Write the functions of Carbohydrates.

Or

- (b) Classify Lipids with examples.

17. (a) Write down the steps of reactions occur during glycolysis.

Or

- (b) Explain the β oxidation in Lipid.

18. (a) Explain ECG in details.

Or

- (b) Write an essay on Mechanism of Urine formation.

19. (a) Explain the factors affects the properties of Skeletal Muscles.

Or

- (b) Explain the conduction of impulse through neurons.

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20. (a) Write an essay about Thyroid Gland.

Or

- (b) Give a brief account on the role of hormones in pregnancy.
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