

(6 pages)

Reg. No. : .....

Code No. : 11573 E Sub. Code : JMZO 51

B.Sc. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2018.

Fifth Semester

Zoology — Main

ANIMAL PHYSIOLOGY

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Albumins are more abundant in  
(a) Seeds (b) Wheat  
(c) Egg white (d) Oranges
2. Identify the derived lipid.  
(a) Waxes (b) Cholesterol  
(c) Phospholipids (d) Glycolipids

3. The enzymes responsible for the digestion of proteins is called  
(a) Lipases (b) Lactase  
(c) Proteases (d) Transferases
4. The biosynthesis of glycogen from glucose is called  
(a) Glycogenesis (b) Glycolysis  
(c) Glycogenolysis (d) None of the above
5. Which of the following is Green coloured respiratory pigment?  
(a) Chlorocruorin (b) Haemoglobin  
(c) Haemocynin (d) Echinochrome
6. Animals excreting uric acid are called  
(a) Ureotelic animals  
(b) Uricotelic animals  
(c) Ammonotelic animals  
(d) All of the above
7. The junction between two neurons is called  
(a) Impulse  
(b) Dendrites  
(c) Synapse  
(d) Neurilemma

Page 2 Code No. : 11573 E



8. \_\_\_\_\_ is the state of continued contraction of the muscle caused by the repeated stimulation.
- (a) Fatigue (b) Clonus  
(c) Tetanus (d) Tonicity
9. The hormone secreted by parathyroid gland is called
- (a) Parathormone  
(b) Thyroxin hormone  
(c) Growth hormone  
(d) Luteotrobic hormone
10. \_\_\_\_\_ is secreted by the posterior lobe of pituitary gland.
- (a) Leutinisig hormone  
(b) Vasopressin  
(c) Thyrotropin  
(d) Growth hormone

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) How Carbohydrates are classified?
- Or
- (b) Brief explain the general structure of amino acids.

Page 3 Code No. : 11573 E

12. (a) Classify the enzymes with suitable examples.

Or

- (b) Write short notes on Glycolysis.

13. (a) List out the various types of respiratory pigments.

Or

- (b) Explain the varieties of excretory products.

14. (a) Critically comment on types of muscles.

Or

- (b) Give a brief note on Electrical synapse.

15. (a) List out the hormones secreted by pituitary gland.

Or

- (b) What are the maternal body changes during pregnancy?

Page 4 Code No. : 11573 E  
[P.T.O.]



PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Describe the structure and functions of Cholesterol.

Or

- (b) Analyse the structure and functions of glucose.

17. (a) Write an elaborate account on mechanism of enzyme action.

Or

- (b) Discuss the role of enzyme involved in carbohydrate digestion in man.

18. (a) Write short note on:

(i) Blood Pressure (ii) Respiratory Quotient.

Or

- (b) Elaborate the mechanism of urine formation in man.

Page 5 Code No. : 11573 E

19. (a) Write about mechanism of muscle contraction.

Or

- (b) Write an essay on structure of neuron.

20. (a) Explain in details about various secretions of Thyroid gland with functions.

Or

- (b) Describe the three phases of menstrual cycle.

Page 6 Code No. : 11573 E

