

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

- (a) Describe the structure and functions of haemoglobin.

Or

- (b) Enumerate the sources and deficiencies of Vitamin C and B6.

- (a) Elaborate the ECG.

Or

- (b) Discuss the mechanism of urine formation.

- (a) Examine the structure of neuron.

Or

- (b) Explain the muscle contraction.

- (a) Explain the structure and functions of eye.

Or

- (b) Explain the following :

(i) hyperopia

(ii) astigmatism.

- (a) Pituitary is a master gland. Discuss.

Or

- (b) Explain the menstrual cycle.

Reg. No. : .....

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

Fifth Semester

Zoology – Core

ANIMAL PHYSIOLOGY

(For those who joined in July 2021 – 2022)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL the questions.

Choose the correct answer :

- Choose one of the protein deficiency from the following
  - Goiter
  - Cretinism
  - Marasmus
  - Diabetes
- Choose the vitamin which is related with Pernicious anaemia
  - Vitamin A
  - Vitamin B<sub>12</sub>
  - Vitamin C
  - Vitamin D



3. Choose the excretory product of Reptiles and Birds
  - (a) ammonia                      (b) uric acid
  - (c) urea                              (d) creatine
4. Select the cartilage of RBC
  - (a) Bone marrow              (b) Liver
  - (c) Pancrease                      (d) Spleen
5. Match the following with the loss of ATP molecules in muscle
  - (a) rigor mortis              (b) atrophy
  - (c) dystrophy                      (d) contraction
6. Select the chemical which is stored in the synaptic vesicles
  - (a) neurotransmitters
  - (b) cerebrospinal fluid
  - (c) lymph
  - (d) plasma
7. Choose the another name of the long sight
  - (a) Myopia                      (b) Hypermetropia
  - (c) Astigmatism              (d) Cataract
8. Match the following one with the receptors of touch
  - (a) tangoreceptors              (b) photoreceptors
  - (c) phonoreceptors              (d) gustatoreceptor
9. Hyperthyroidism results in \_\_\_\_\_
  - (a) gigantism                      (b) cretinism
  - (c) Addison's disease              (d) Turner's syndrome

10. Select the hormone which initiate milk production
  - (a) STH                              (b) Prolactin
  - (c) Thyroxine                      (d) Melanin

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Explain the structure of lungs.
 

Or

 (b) Explain the Bohr's effect.
12. (a) Explain the structure of kidney.
 

Or

 (b) Summarize the functions of blood.
13. (a) Interpret the types of muscle.
 

Or

 (b) Write short notes on Alzheimer's disease.
14. (a) Elaborate the tactile organs.
 

Or

 (b) Explain the organs of Corti.
15. (a) Summarize the secretions of Islets of Langerhans gland.
 

Or

 (b) Evaluate the role of Vasopressin.

