

This question paper contains 3 printed pages]

**B—173—2019**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**B.Sc. (Third Semester) EXAMINATION**

**MARCH/APRIL, 2019**

**(CBCS/CGPA Pattern)**

**ZOOLOGY**

**Papir-VII (CCZ-III)**

**(Comparative Anatomy and Physiology)**

**(MCQ & Theory)**

**(Monday, 8-4-2019)**

**Time : 2.00 p.m. to 4.00 p.m.**

*Time—2 Hours*

*Maximum Marks—40*

*N.B. :— (i) Attempt all questions.*

*(ii) All questions carry equal marks.*

*(iii) Use separate (OMR) answer sheet for Q. No. 1.*

*(iv) Illustrate your answers with suitable labelled diagrams wherever necessary.*

**MCQ**

1. Select the correct answer from the given multiple choice questions : 10

(i) Mucous gland is derivative of.....

(a) Epidermis

(b) Dermis

(c) Endodermis

(d) None of these

(ii) Mammalian Heart is.....

(a) One chambered

(b) Three chambered

(c) Four chambered

(d) Two chambered

(iii) Vitamin C is called as.....

(a) Tocopherol

(b) Ascorbic Acid

(c) Calciferol

(d) Retinol

P.T.O.

- (iv) The non-protein part of enzyme is called.....
- (a) Cofactor (b) Apoenzyme  
(c) Isoenzyme (d) None of these
- (v) Induced fit theory of enzyme action was suggested by.....
- (a) Sir Hans Krebs (b) M.V.B. Roberts  
(c) W.K. Purves (d) D. Koshland
- (vi) Instrument used for measurement of Blood Pressure is.....
- (a) Sphygmomanometer (b) MRI  
(c) Haemocytometer (d) Spirometer
- (vii) Gills are specialized structure for.....
- (a) Cutaneous Respiration (b) Aerial Respiration  
(c) Aquatic Respiration (d) Pulmonary Respiration
- (viii) The animals excrete the excretory product in the form of uric acid are called as.....animal.
- (a) Uricotelic (b) Ammonotelic  
(c) Ureotelic (d) Glucotelic
- (ix) A generalised neuron consist of.....
- (a) Cyton (b) Axon  
(c) Dendron (d) All of these
- (x) Junction between two neurons is called.....
- (a) Synapse (b) Axon  
(c) Cyton (d) Dendron

### Theory

2. Give a comparative account of integument in birds and mammals. 10

Or

Write notes on :

- (a) Metanephric Kidney  
(b) Composition of urine.

WT

( 3 )

B—173—2019

3. Give an account of sources, deficiency diseases of fat soluble vitamins. 10

*Or*

Write notes on :

- (a) Carbohydrate digestion
- (b) Conduction of Nerve Impulse.

4. Describe in brief the composition and functions of Blood. 10

*Or*

Write notes on :

- (a) Transport of O<sub>2</sub> and CO<sub>2</sub>
- (b) Cardiac muscle.

B—173—2019

3