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Y—173—2019

FACULTY OF SCIENCE AND TECHNOLOGY

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

OCTOBER/NOVEMBER, 2019

(CBCS Pattern)

ZOOLOGY

Paper-VII (CZ-III)

(Comparative Anatomy and Physiology)

(MCQ & Theory)

(Saturday, 23-11-2019)

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 : 10
- (i) Outermost layer of mammalian epidermis is.....
 - (a) Stratum lucidum
 - (b) Startum Corneum
 - (c) Stratum Malpighii
 - (d) Startum Granulosum
 - (ii) Two chambered heart is found in.....
 - (a) Scoliodon
 - (b) Frog
 - (c) Human
 - (d) Snake
 - (iii) Deficiency of Vitamin A cause.....
 - (a) Loss of appetite
 - (b) Loss of Hair
 - (c) Anemia
 - (d) Night Blindness

P.T.O.

- (iv) Protein digestive enzyme is.....
- | | |
|-------------|-------------|
| (a) Amylase | (b) Trypsin |
| (c) Lipase | (d) Maltase |
- (v) Saliva contains an enzyme called.....
- | | |
|------------|-------------|
| (a) Ptylin | (b) Trypsin |
| (c) Pepsin | (d) Lipase |
- (vi) The normal systolic and diastolic blood pressure in adult man is.....
- | | |
|------------------|------------------|
| (a) 100/50 mm Hg | (b) 120/40 mm Hg |
| (c) 120/80 mm Hg | (d) 100/80 mm Hg |
- (vii) Respiratory organ in man is.....
- | | |
|-----------|----------|
| (a) Lung | (b) Gill |
| (c) Liver | (d) Skin |
- (viii) Urine appears yellow colour due to.....
- | | |
|---------------|-------------|
| (a) Urea | (b) Sugar |
| (c) Urochrome | (d) Albumen |
- (ix) Structural and functional unit of nervous system is.....
- | | |
|-----------------|------------|
| (a) Nephron | (b) Bone |
| (c) Bone marrow | (d) Neuron |
- (x) Cardiac muscles are.....
- | | |
|----------------------|-------------------|
| (a) Involuntary | (b) Voluntary |
| (c) Both (a) and (b) | (d) None of these |

Theory

2. Give a comparative account of kidneys in vertebrates.

10

WT

(3)

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Or

Write notes on :

10

(a) Reptilian Heart

(b) Ultrafiltration.

3. Give an account of various factors affecting enzyme activity.

10

Or

Write notes on :

10

(a) Induced fit model of enzyme action

(b) Structure of Synapse.

4. Describe the structure and working of Human Heart.

10

Or

Write notes on :

10

(a) Mechanism of Respiration

(b) Skeletal Muscle.

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