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V—128—2017

FACULTY OF SCIENCE

B.Sc. (Third Semester) EXAMINATION

OCTOBER/NOVEMBER, 2017

(CBCS Pattern)

ZOOLOGY

Paper VII

(Comparative Anatomy and Physiology)

(MCQ+Theory)

(Tuesday, 21-11-2017)

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

Time—Two Hours

Maximum Marks—40

N.B. :— (i) All questions are compulsory.

(ii) Use separate (OMR) answer sheet for Question No. 1.

(iii) Draw well labelled diagrams wherever necessary.

(iv) All questions carry equal marks.

MCQ

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

(i) Nails, hoofs and horns are derivatives of

(A) Dermis

(B) Epidermis

(C) Endodermis

(D) None of these

(ii) Mammalian kidney is

(A) Metanephric

(B) Pronephric

(C) Opisthonephric

(D) Mesonephric

(iii) Lock and Key hypothesis of enzyme action was proposed by

(A) Emil Fischer

(B) Krebs

(C) Koshland

(D) Barnard

P.T.O.

- (iv) Deficiency of vitamin 'C' causes
- (A) Ricketts (B) Beri-beri
(C) Xerophthalmia (D) Scurvy
- (v) Digestion of carbohydrates occur in
- (A) Stomach (B) Buccal cavity
(C) Intestine (D) All of these
- (vi) Gills are the specialised structure for
- (A) Aquatic respiration (B) Cutaneous respiration
(C) Pulmonary respiration (D) Aerial respiration
- (vii) In a normal adult man, the blood pressure is
- (A) 100/80 MM. Hg. (B) 120/80 MM. Hg
(C) 100/100 MM. Hg. (D) 100/120 MM. Hg.
- (viii) The animal excrete excretory products in the form of urea are called
- (A) Ammonotelic (B) Uricotelic
(C) Purinotelic (D) Ureotelic
- (ix) Structural and functional unit of nervous system is
- (A) Neuron (B) Medulla
(C) Nephron (D) Cortex
- (x) Cardiac muscles are present in
- (A) Liver (B) Brain
(C) Heart (D) Kidney

Theory

2. Give a comparative account of hearts in vertebrates series.

10

Or

Write notes on :

- (a) Piscean Skin
(b) Composition of Urine.

WT

(3)

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

Or

Write notes on :

- (a) Lipid digestion
- (b) Structure of synapse.

4. What is respiration ? Describe respiratory organism man. 10

Or

Write notes on :

- (a) E.C.G.
- (b) Ultra-structure of skeletal muscle.

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