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AO—124—2018

FACULTY OF SCIENCE

B.Sc. (Third Semester) EXAMINATION

MARCH/APRIL, 2018

(CBCS Pattern)

ZOOLOGY

Paper VII

(Comparative Anatomy and Physiology)

(MCQ+Theory)

(Friday, 6-4-2018)

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

Time—2 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) Innermost layer of mammalian epidermis is

(a) Stratum lucidum

(b) Stratum germinativum

(c) Stratum corneum

(d) Stratum granulosum

(ii) Incomplete four chambered heart is found in

(a) Human

(b) Frog

(c) Crocodile

(d) Scoliodon

(iii) Induced fit theory of enzyme action was proposed by

(a) Koshland

(b) Emil Fischer

(c) Krebs

(d) Watson

P.T.O.

- (iv) Protein, part of an enzyme, is called
- (a) Holoenzyme (b) Metaenzyme
(c) Prosthetic group (d) Apoenzyme
- (v) Starch is digested by
- (a) Urease (b) Ptyline
(c) Protease (d) Lipase
- (vi) Respiratory organ in man is
- (a) Gill (b) Skin
(c) Lung (d) Liver
- (vii) The blood pressure is measured by an instrument called
- (a) Sphygmomanometer (b) MRI
(c) ECG (d) Sonography
- (viii) The structural and functional unit of kidney is
- (a) Neuron (b) Nephron
(c) Medulla (d) Hilum
- (ix) Neuron is composed of
- (a) Cell body (b) Axon
(c) Dendrites (d) All of these
- (x) Skeletal muscles are
- (a) Voluntary (b) Involuntary
(c) Visceral (d) None of these

(Theory)

2. Give a comparative account of kidneys in vertebrates.

10

Or

Write notes on :

- (a) Reptilian skin
(b) Physiology of urine formation.

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

Or

Write notes on :

- (a) Classification of enzymes
- (b) Types of neuron.

4. Describe the composition and functions of blood. 10

Or

Write notes on :

- (a) Mechanism of respiration
- (b) Cardiac muscle.