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B.Sc. IV Semester Degree Examination, May/June 2017

ZOOLOGY

Paper – 4.1 : Physiology and Biochemistry

Time : 3 Hours

Max. Marks : 80

Instructions : 1) Answer should be **specific** to the questions.

2) Draw **neat** labelled diagrams **wherever** necessary.

I. Answer **any ten** of the following :

(10×2=20)

- 1) Pathological physiology.
- 2) Peristalsis.
- 3) Haemocyanin.
- 4) Tachycardia.
- 5) Uricotelism.
- 6) Troponin.
- 7) Resting potential.
- 8) Goiter.
- 9) Bursa of fabricus.
- 10) Transferases.
- 11) Scurvy.
- 12) Oxidative phosphorylation.

II. Answer **any four** of the following :

(4×5=20)

- 13) Role of pancreatic juice and intestinal juice in digestion.
- 14) Mechanism of synaptic transmission.
- 15) Respiratory quotient.
- 16) Structure of IgG.
- 17) Function of pancreatic hormones.
- 18) Lock and key mechanism of enzyme action.

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III. Answer **any four** of the following :

(4x10=40)

- 19) Mechanism of sliding filament theory of muscle contraction.
 - 20) Process of urine formation.
 - 21) Structure of human heart.
 - 22) Hormones of Adenohypophysis and its functions.
 - 23) Glycolysis.
 - 24) Functions and deficiency symptoms of Vitamin B complex.
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