



13MY 44 – IV (33)

B.Sc. IV Semester Degree Examination, May 2013

ZOOLOGY

Paper – 4.1 : Physiology and Biochemistry

Time : 3 Hours

Max. Marks : 80

**Note :** 1) Answers should be **specific** to the questions.

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

I. Answer **any ten** of the following : (2×10=20)

- 1) Neurophysiology
- 2) Hypertension
- 3) Mechanical digestion
- 4) Tetany
- 5) Synapse
- 6) Tropomyosin
- 7) Haemoerythrin
- 8) Uricotelism
- 9) Thymus
- 10) Transferases
- 11) Scurvy
- 12) Henle's loop.

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

(5×4=20)

- 13) Primary lymphoid organ.
- 14) Digestion in small intestine.
- 15) Transport of O<sub>2</sub>.

P.T.O.

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- 16) Myogenic and neurogenic heart.
- 17) Lock and key method of enzyme action.
- 18) Oxidative phosphorylation.

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

(10×4=40)

- 19) Conduction of nerve impulses.
- 20) The process of glycolysis.
- 21) List the hormones of adenohipophysis and write their functions.
- 22) Ultra structure of striated muscles.
- 23) Composition of human blood.
- 24) Functions and deficiency symptoms of fat soluble vitamins.

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(5×4=20)

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