

Bachelor of Science (B.Sc.) Semester—VI (C.B.S.) Examination

GENERAL MAMMALIAN PHYSIOLOGY—II

Paper—1

Zoology

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) **ALL** questions are compulsory.

(2) All questions carry equal marks.

(3) Draw suitable diagrams wherever necessary.

1. Describe ultrastructure of striated muscle. 10

OR

Write notes on :

(A) Types of neurons 5

(B) All or none principle and muscle fatigue. 5

2. Describe mechanism of urine formation. 10

OR

Write notes on :

(A) Normal constituents of urine. 5

(B) Malpighian corpuscle. 5

3. Describe structure of pituitary gland. Add a note on functions of neurohypophysis. 10

OR

Write notes on :

(A) Thyroid Hormones 5

(B) Functions of pineal gland. 5

4. Give an account of causes of infertility in male and female. 10

OR

Write notes on :

- (A) Oestrus cycle 5
(B) In vitro fertilization. 5

5. Write four or five lines on the following (any **Ten**) :

- (i) Synapse
(ii) Cross-bridge
(iii) Muscle Twitch
(iv) PCT
(v) Dialysis
(vi) Hypotonic urine
(vii) Mineralocorticoids
(viii) STH
(ix) Dwarfism
(x) Estrogen
(xi) Copper-T
(xii) Androgens. 10