

B.Sc. (Part-III) (with Credits)-Regular-Semester 2012 Sem VI
B.Sc.4539 - Zoology Paper-I (General Mammalian Physiology-II)

P. Pages : 2

Time : Three Hours



GUG/S/18/5656

Max. Marks : 50

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- Notes : 1. All questions are compulsory.
2. All questions carry equal marks.
3. Draw a neat labelled diagram wherever necessary.

1. Describe origin and propagation of nerve impulse in non-myelinated nerve fibre **10**

OR

- a) Describe selective reabsorption in urine formation.
b) Uriniferous tubule

2. Write an essay on hormones of pituitary gland and their functions. **10**

OR

- a) Male sex hormones
b) Female infertility

3. Attempt the following ----- **10**

- a) Muscle contraction.
b) Malpighian body.
c) Functions of Thyroid Hormones
d) Proliferative phase

OR

- e) E.M. structure of Muscle fibre
f) Micturition
g) Hypofunction and hyperfunction of glucocorticoid
h) Hormonal contraceptive

4. Attempt the following. **10**

- a) Structure of neuron
b) Composition of urine

- c) Hypo and Hyper Parathyroidism
- d) IVF cycle

OR

- e) Muscle twitch
- f) Counter current multiplier
- g) Adrenal medulla
- h) Functions of ovarian Hormones

5. Write four or five lines on the following **any ten.**

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- i) Tropomyosin
- ii) Perimycium
- iii) Sarcomere
- iv) Bowman's capsule
- v) PCT
- vi) Ketosis
- vii) Sella turcica
- viii) Chromophobes
- ix) Calcitonin
- x) GIFT
- xi) Oestrous
- xii) Relaxin
