(103ZOO17)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2017.

FIRST SEMESTER

Branch – Zoology

Paper III — ANIMAL PHYSIOLOGY AND ENDOCRINOLOGY

(New Syllabus)

Time : 3 Hours *Max. Marks : 70*

I. Answer any FIVE of the following questions. (5 × 4 = 20 marks)

1. Aim and scope of Animal physiology.
2. Osmoregulation.
3. Biological rhythms.
4. Chromatophore pigments.
5. Adrenal gland.
6. Nuclear receptors.
7. Glucagon.
8. Gastrin.

II. Answer the following questions. (4 × 12.5 = 50)

9. (a) Explain the feeding mechanisms and regulations.

Or

(b) Discuss the circulation of body fluids in detail.

10. (a) Explain the Bioluminescence in different animals.

Or

(b) Discuss the muscle structure and their functions.

11. (a) Write about the biosynthesis and secretion of peptide hormones.

Or

(b) Explain the hormonal receptors and mechanism of hormone action.

[P.T.O]

12. (a) Discuss the hormonal regulation of female sexual cycle.

Or

(b) Explain the hormonal regulation of lipid metabolism.

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