



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 5th Semester Examination, 2024-25

ZOOADSE03T-ZOOLOGY (DSE1/2)



Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.*

1. Answer any **eight** questions from the following:

2×8 = 16

- What are second messengers? Give example.
- Mention the source of catecholamines. Why are they so named?
- Name the different types of cell surface receptors.
- State the cause and symptoms of Graves' disease.
- What are eicosanoids? Give example.
- Write the source and functions of inhibin in male and female.
- Why vasopressin is named as ADH?
- What are the major endocrine cells in islets of Langerhans? State their secretory products.
- State the full form of SON and PVN.
- What is corpus albicans?
- Mention the source and function of melatonin.
- Write any two differences between estrous and menstrual cycles.

2. Answer any **three** questions from the following:

3×3 = 9

- State the differences between ELISA and RIA. 3
- What is Graafian follicle? State the hormones secreted from it. Draw a labelled diagram of Graafian follicle. 1+1+1
- What do you mean by feedback regulation of hormonal release? Explain the positive feedback mechanism with a proper example. 1+2
- Distinguish between Conn's disease and Cushing's syndrome. 3
- What is hypothalamo-pituitary axis? Name two hypothalamic hormones that control anterior pituitary. 1+2

