



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 5th Semester Examination, 2022-23

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 catecholamines?
- What do you mean by autocrine and paracrine secretion?
- What do you mean by neurohormones?
- Distinguish between diabetes insipidus and diabetes mellitus.
- Mention the source and function of HCG.
- What are eicosanoids?
- Name the enzymes used in ELISA.
- Distinguish between chromophobes and chromophils with examples.
- What are 'C' cells? State their functions.
- What is corpus luteum? Name the hormone secreted from it.
- Name the different phases of menstrual cycle in human.
- What do you mean by second messenger? Give example.
- Why insulin is known as hypoglycemic hormone? What is glucosuria?

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

3×3 = 9

- State the functions of different female hormones involved in parturition.
- State the physiological role of vasopressin. Why is it named 'ADH'?
- Name the secretory product of parathyroid gland and its physiological role.
- Write down the sources and names of adrenal cortical hormones.
- Write down the principle of Radio Immuno Assay.

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

5×3 = 15

- Discuss the biosignalling mechanism of peptide hormones in a target cell. 5
- Classify hormones on the basis of its chemical nature. 5
- Briefly describe the estrous cycle in rat. 5
- Write down the histological features of Graafian follicle. State the function of FSH and LH in male. 3+2
- Write short notes on:
 - Addison's disease
 - Acromegaly.

2½+2½

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