



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



ZOADSE03T-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: 2½+2½
 - Addison's disease
 - Acromegaly.

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