



**WEST BENGAL STATE UNIVERSITY**  
B.Sc. Honours 5th Semester Examination, 2020, held in 2021

**ZOOADSE03T-ZOOLOGY (DSE1/2)**

**ENDOCRINOLOGY**

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
- (a) Give two examples of neurohormones.
  - (b) Distinguish between Estrous cycle and Menstrual cycle.
  - (c) Write names of specialized endocrine tissues.
  - (d) What is chalone?
  - (e) What is homeostasis?
  - (f) Write the full form of GnRH and MIH.
  - (g) Mention the position of Pituitary gland.
  - (h) What is Hypophyseal portal system?
  - (i) Which endocrine gland disorder is responsible for Cushing syndrome? Mention one symptom of it.
  - (j) Where are Chief cells found?
  - (k) What is the cause of Conn's syndrome?
  - (l) What is Endemic goiter?
  - (m) Write function of FSH and LH.
  - (n) What is atretic follicle?
  - (o) What is menarche?
2. Answer any **three** questions from the following: 3×3 = 9
- (a) Explain positive and negative feedback control.
  - (b) Write in brief the effect of thyroid hormone on Cardio vascular system.

- (c) Write in brief the mechanism of action of steroid hormones in nucleus.
- (d) Write in brief the role of antibody in RIA.
- (e) How PTH regulates blood level of calcium and phosphorus?
- (f) Endocrine secretions are key factors to control homeostasis — Explain.

3. Answer any *three* questions from the following: 5×3 = 15
- (a) Write in brief the action of vasopressin. Why it is also called ADH? 3+2
  - (b) Discuss the effects of hypothyroidism. 5
  - (c) Describe the structure of adenohypophysis with a suitable figure. 5
  - (d) Write in brief the uses of ELISA. 5
  - (e) State multifaceted role of oxytocin. 5
  - (f) Write in brief the role of hormones in maturation process of ovarian follicles during menstrual cycle. 5

**N.B. :** *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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