



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 5th Semester Examination, 2021-22

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
- (a) What is C19 steroid?
 - (b) What is acromegaly?
 - (c) Write two functions of somatostatin.
 - (d) Give examples of one hormone each from the following groups –
Peptide hormones, Steroid hormones, Eicosanoids.
 - (e) Mention the source and function of ICSH.
 - (f) What is the cause of Addison's disease?
 - (g) What is LH surge?
 - (h) Differentiate between polyestrous and monoestrous animals with examples.
 - (i) What are parafollicular C cells? State their function.
 - (j) Distinguish between diabetes insipidus and diabetes mellitus.
 - (k) What is antral follicle?
 - (l) Where from the glucocorticoids and mineralocorticoids are secreted?
2. Answer any **three** questions from the following: 3×3 = 9
- (a) Write the role of pineal gland in mammalian reproduction. 3
 - (b) Describe the effect of glucocorticoids on carbohydrate metabolism. 3
 - (c) Explain negative feedback mechanism of endocrine regulation with proper example. 2+1
 - (d) Discuss the role of thyroxine in increase of BMR. What is Grave's disease? 2+1
 - (e) State the name and functions of the hormones secreted by Sertoli Cells and Leydig Cells. 1+2



3. Answer any *three* questions from the following:
- (a) Describe the histological features of thyroid gland with suitable diagram. 5
 - (b) Describe the bioassays of hormones using ELISA technique. 5
 - (c) Compare the follicular and luteal phases of human menstrual cycle. 3+2
 - (d) State the mechanism of action of steroid hormones with proper diagram. 1+2+2
 - (e) What is infundibulum? Differentiate between acidophilic and basophilic cells found in adenohypophysis. Name the hormones secreted by these cells.

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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