

B.Sc. 6th Semester (Honours) Examination, 2023 (CBCS)**Subject : Zoology****Course : DSE-4****(Endocrinology)****Time: 2 Hours****Full Marks: 40***The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.***Group-A**

1. Answer *any five* questions of the following: 2×5=10
- State two enteric neurohormones and the cells releasing them.
 - State the causes and symptoms of acromegaly.
 - What is the underlying cause of Addison's disease? What are its symptoms?
 - What is the significance of the ovarian cycle?
 - What are the sources of relaxin hormone and state its function?
 - Name four hormones that promote a sense of well-being in our minds.
 - Mention the secretions of parvocellular neurosecretory cells.
 - Name two commonly used radioisotopes used in RIA.

Group-B

2. Answer *any two* questions of the following: 2×5=10
- Discuss the structure and position of pineal gland. Add a note on transport of thyroid hormone. 3+2
 - What are positive and negative feedback mechanisms? Explain citing suitable examples. 5
 - Elucidate the signalling mechanism in case of peptide hormone receptors. 5
 - Discuss the neuronal regulation of let down of milk. Mention the functions of the hormone secreted by the beta cells of the pancreas. 3+2

Group-C

3. Answer *any two* questions of the following:

10×2=20

- (a) Name the different hypothalamic nuclei. What are their functions? Give an illustrated account of the hypophyseal portal system. 3+3+4
- (b) Classify hormones based on their chemical structure. State two characteristics with example of each class. Mention the physiological effects of high level of parathyroid hormone in human 6+2+2
- (c) Define homeostasis. Describe the hormonal mechanism for regulation of blood pressure. Write the full form of ELISA. 2+7+1
- (d) Write short notes on: 5+5
- (i) Adrenomedullary hormones
 - (ii) Spermatogenesis
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