



UNIVERSITY OF NORTH BENGAL

B.Sc. Honours Part-III Examination, 2021

ZOOLOGY

PAPER-VII (Revised New Syllabus)

ENDOCRINOLOGY AND REPRODUCTIVE BIOLOGY, DEVELOPMENT BIOLOGY

Full Marks: 90

ASSIGNMENT

The figures in the margin indicate full marks.

GROUP-A

(ENDOCRINOLOGY AND REPRODUCTIVE BIOLOGY)

Answer any *three* of the following

15×3 = 45

1. Classify hormones on the basis of their chemical nature and write the functions of hormones secreted by the thyroid gland.
2. Give an account of hormones secreted from the pituitary with their functions.
3. Stating the cell types of Islets of Langerhans, describe the antagonistic role of insulin and glucagon in regulating the glucose concentration in the body.
4. Describe different types and functions of hormones secreted from adrenal gland.
5. Describe briefly the menstrual cycle in human.

GROUP-B

(DEVELOPMENTAL BIOLOGY)

Answer any *three* of the following

15×3 = 45

6. Describe the process of external fertilization in sea urchin.
7. Describe the process of gastrulation in amphibian with suitable diagrams with a note on the grey crescent.
8. Explain the process of development of eye in chick mentioning the reciprocal induction in this process.
9. Describe briefly the extra embryonic membranes and their functions in chick.
10. Describe different types and function of placenta based on the extra-embryonic membrane, number of villi and the histological structure.

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