



DCZO601

Reg. No.

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VI Semester B.Sc. Degree Examination July/August-2024

ZOOLOGY

Evolutionary and Developmental Biology

(NEP Scheme Freshers)

Paper-VII



Time : 2½ Hours

Maximum Marks : 60

*Instructions to Candidates :*

1. Draw diagrams wherever necessary.
2. Answers should be completely in English.

**PART - A**

**I. Answer All the questions.**

**(5×1=5)**

1. Who proposed use and disuse theory?
2. Name any one method of dating of fossils.
3. Mention the function of acrosome during fertilization.
4. Name the cavity present in the blastula of frog.
5. Define senescence.

**PART - B**

**II. Answer any FIVE of the following questions.**

**(5×3=15)**

1. Write a note on pre-biotic atmosphere.
2. State Hardy. Weinberg law. Mention its significance.
3. Write a note on Founder's effect.
4. Differentiate between allopatric and sympatric speciation.
5. Illustrate the phases of spermatogenesis.
6. Sketch and label the Neurula of frog.
7. List the functions of placenta.

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**PART - C**

**III. Answer any Four of the following questions.**

**(4×5=20)**

1. What is Natural selection? Explain directional selection with an example
2. Give the characteristic features of Eohippus.
3. Explain Post-Zygotic reproductive isolating mechanism with respect to fertilization.
4. Give an account on :
  - a) Cortical changes
  - b) Amphimixis.
5. Explain the morphological and anatomical changes during metamorphosis of frog.
6. Explain trophoblast development in human.

**PART - D**

**IV. Answer any Two of the following questions.**

**(2×10=20)**

1. Give a detailed account on Dasroixisus.
  2. What are Fossils? Explain the types of fossils.
  3. Explain Gastrulation in frog with neat labelled diagrams.
  4. Explain menstrual cycle. Add a note on hormonal regulation.
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