



B.Sc. VI Semester Degree Examination, Sept./Oct. - 2024

ZOOLOGY

**DSC 5 - Z.6.1 : Evolutionary and Developmental Biology
(NEP)**

Time : 2 Hours

Maximum Marks : 60

-
- Note :** (i) Answer **all** sections.
(ii) Draw labelled diagrams wherever necessary.
-

SECTION - A

1. Answer the following sub-questions. **10x1=10**
- (a) What is Gene frequency ?
 - (b) What is Genetic Drift ?
 - (c) What is Extinction ?
 - (d) What are Fossils ?
 - (e) What is Polyspermy ? Give example.
 - (f) Define cleavage.
 - (g) Expand "AIDS".
 - (h) Mention the causative agent of Gonorrhoea.
 - (i) What is the function of Acrosome of Sperm ?
 - (j) What are Analogous Organs ? Give example.

SECTION - B

- Answer **any four** of the following questions. **4x5=20**
- 2. Briefly explain Mutation Theory of Organic Evolution.
 - 3. Write a note on Sympatric Speciation.
 - 4. Give short note on Embryological Evidences of Evolution.
 - 5. What is Cleavage ? Explain the types of cleavages in development of Frog.
 - 6. Sketch and label the Frogs Egg.
 - 7. Write short notes on Syphilis.



SECTION - C

Answer **any three** of the following questions.

3x10=30

8. Explain in detail about the principles of Theory of Natural Selection.
9. Give the detail account of the Morphological evidences of Evolution.
10. Write the differences between Spermatogenesis and Oogenesis.
11. Explain the process of oogenesis with schematic representation.
12. Write an Explanatory note on causative agent, mode of Transmission, Symptoms and Preventive measures of AIDS.

- o 0 o -

