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VI Semester B.Sc. Degree Examination, September - 2021

ZOOLOGY

Developmental Biology and Organic Evolution

(CBCS Scheme Freshers 2021 Onwards)

Paper : VII

Maximum Marks : 70

Time : 3 Hours

*Instructions to Candidates:*

1. Draw neat labelled diagrams wherever necessary.
2. Answer should be completely in English

**PART - A**

I. Answer **ALL** the questions in **one word or one sentence each.**

(10×1=10)

1. What is Bilateral Cleavage?
2. Name the gamete which produces fertilizin.
3. Give an example for Cleidoic egg.
4. Mention the type of blastula present in Amphioxus.
5. Define Neurulation.
6. What is Polyspermy?
7. Give an example for Zonary Placenta.
8. Define Genetic Grift.
9. Name the term used for re-appearance of ancestral characters.
10. Mention any one method of dating of fossils.

**PART - B**

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

(5×3=15)

11. State epigenetic theory. Who proposed it?
12. Write a note on Oviparity. Give an example.

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13. What are foetal membranes? Mention any two types.
14. Sketch and label the fate map of Frog.
15. What is Parthenogenesis? Mention the types of natural Parthenogenesis.
16. State Hardy - Weinberg Law.
17. Write a note on Sympatric speciation.

**PART - C****III.** Answer any **FIVE** of the following.

(5×5=25)

18. Classify the eggs based on the amount of yolk.
19. With reference to fertilization explain acrosomal reaction.
20. Compare the blastula of Amphioxus with Frog.
21. Explain Axial gradient theory of child.
22. Write a note on :
  - a. Chorio - allantoic placenta.
  - b. Atavism.
23. Explain the role of mutation in speciation.
24. List the salient features of cro - magnon man.

**PART - D****IV.** Answer any **TWO** of the following.

(2×10=20)

25. Give an account of gastrulation in Frog with neat labelled diagrams.
  26. Explain menstrual cycle and their hormonal regulation.
  27. Explain
    - a. External gill stage of tadpole.
    - b. Zygotic mortality and hybrid sterility.
  28. What are fossils? Explain the types of fossil formation.
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