

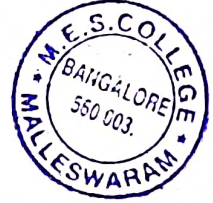


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VI Semester B.Sc. Degree Examination, September/October - 2022

ZOOLOGY**Developmental Biology and Organic Evolution
(CBCS Scheme F+R 2020-21 Onwards)****Paper : VII****Time : 3 Hours****Maximum Marks : 70****Instructions to Candidates :**

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

PART - A**I Answer the following with ONE word or ONE sentence each. (10 × 1 = 10)**

1. What is amphimixis?
2. What is teleolecithal egg?
3. Define radial cleavage.
4. Define metamorphosis
5. Name the foetal membrane in chick that helps in nutrition.
6. Give an example for deciduate placenta.
7. Define regeneration
8. What is gene pool?
9. What is sympatric speciation?
10. What is atavism?

PART - B**II Answer any FIVE of the following (5 × 3 = 15)**

11. Explain briefly viviparity with an example.
12. Sketch and label the V.S of blastula of amphioxus.

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13. What are fate maps? Mention any two methods of construction.
14. Explain arhenotoky with an example.
15. What is morphollaxis? Give an example.
16. With reference to speciation explain mutation.
17. What are fossils? Explain casts.

PART - C

III. Answer any FIVE of the following.

(5 × 5 = 25)

18. Sketch and label the Hen's egg.
19. What is polyspermy. Explain with an examples.
20. Explain the planes of cleavage.
21. Describe the gastrula of frog with a neat labelled diagram.
22. Write a note on yolk sac placenta
23. Homologous organs are evidences of evolution substantiate.
24. List the salient features of Neanderthal Man

PART - D

IV. Answer any TWO of the following.

(2 × 10 = 20)

25. Explain the mechanism of fertilization.
 26. What is cell lineage? Explain with reference to Nereis.
 27. Describe the transplantation experiments of spemann and mangold
 28. What is isolation? Explain Premating mechanism.
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