



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**B.Sc. DEGREE EXAMINATION – ZOOLOGY**

**FOURTH SEMESTER – APRIL 2016**

**ZO 4500 - EMBRYOLOGY AND EVOLUTION**

Date: 20-04-2016  
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

**Part-A**

**Answer ALL the questions**

**(10×2=20 Marks)**

1. Explain any one theory of fertilization.
2. What is a primordial germ cell?
3. Give any two anti Lamarkian views.
4. What is a geological time scale?
5. Write a short note on eohippus.
6. Define living fossil with a suitable example.
7. Elaborate the special adaptive feature of chameleon.
8. Distinguish gene mutation and chromosomal mutations.
9. Differentiate somatopleure from splanchnopleure.
10. Explain artificial insemination.

**Part-B**

**Answer any FOUR questions**

**(4×10=40 Marks)**

11. Classify placenta based on the histology.
12. Explain the various morphogenetic movements observed in frog.
13. Write a paragraph on the different type of chordate eggs.
14. Explain the theory of inheritance of acquired characters by Lamarck with suitable examples.
15. Give an account on morphological evidences.
16. Write about convergence and parallelism.

**Part-C**

**Answer any TWO questions**

**(2×20=40 Marks)**

17. Write an essay on animal coloration and mimicry.
18. Explain Darwinism and elaborate Neo-Darwinism concept.
19. Write an essay on the development of starfish.
20. Explain the process of fertilization.

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