

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

FOURTH SEMESTER – NOVEMBER 2016

AZ 4505 – ORGANIC EVOLUTION

Date: 04-11-2016

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

PART-A

Answer ALL the questions

(10x2=20Marks)

1. Define the theory of Pangenesis.
2. What is the HMS Beagle?
3. What is Mullerian mimicry?
4. Mention the contribution of August Weismann.
5. Define convergent evolution.
6. Comment on isolating mechanisms.
7. What is Neoteny?
8. What are homologous organs? Give examples.
9. Comment on evolutionary genomics.
10. What is eugenics?

PART – B

(4x10=40Marks)

Answer any FOUR questions

11. Describe Urey-Miller experiment.
12. Give an account on Lamarckism.
13. Describe the mutation theory.
14. Give an account on adaptive radiation in mammals.
15. Tabulate the Geological Time Scale.
16. Write an account on Evolution and ethics.

PART – C

(2x20=40Marks)

Answer any TWO questions

17. Describe in detail Darwin's theory of Natural selection.
18. Discuss the role of isolating mechanisms in speciation.
19. Write in detail morphological and embryological evidences in support of organic evolution.
20. Write an essay on Human Genome Project.

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