



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

FOURTH SEMESTER – APRIL 2017

AZ 4505- ORGANIC EVOLUTION

Date: 21-04-2017
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

Part – A

Answer all the questions:

(10 x 2 = 20)

Define / Explain the following:

1. Differentiate Organic and inorganic evolution.
2. What is the HMS Beagle?
3. What is Batesian mimicry?
4. Define isolating mechanisms.
5. What are allopatric species?
6. What are vestigial organs?
7. Define convergent evolution.
8. What are homologous organs?
9. Comment on Australopithecus.
10. What is neoteny?

Part – B

Answer any four questions:

(4 X10 = 40)

11. Describe Urey-Miller experiment.
12. Give an account of Lamarckism.
13. Give an account on adaptive radiation in reptiles.
14. Tabulate the geological time scale.
15. Comment on eugenics.
16. Write an account on evolution and ethics.

Part – C

Answer any two questions:

(2 x 20 = 40)

17. Describe in detail Darwin's theory of Natural Selection.
18. What is speciation? Explain the different modes of speciation.
19. Enumerate the physiological and biochemical evidences in support of theory of organic evolution.
20. Write an essay on Human Genome Project.
