



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY
Question Paper

B.Sc. Honours Examinations 2022

(Under CBCS Pattern)

Semester - VI

Subject : ZOOLOGY

Paper : C 14-T

Evolutionary Biology

Full Marks : 40

Time : 2 Hours

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Answer any *four* questions : 5×4=20
- (a) How do genetic drift, non-random mating and migration upset genetic equilibrium?
 - (b) Define species. Why is species so important in taxonomic hierarchy?
 - (c) Give an account of sympatric speciation.
 - (d) Write down in brief about 'Cambrian explosion'.
 - (e) What is convergent and divergent evolution?
 - (f) Describe in brief the Neutral Theory of molecular evolution.

2. Answer any *two* questions :

10×2=20

- (a) Discuss in brief about various pre-zygotic and post-zygotic isolating mechanisms with suitable examples.
 - (b) Write down in brief about the origin and evolution of man.
 - (c) Describe the 'big five' mass extinction events with their causes and effects.
 - (d) Briefly describe the major geological events of paleozoic era.
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