



PG – 529

V Semester B.Sc.-M.Sc. (Integrated Course) Degree  
Examination, December 2017/January 2018  
(CBCS)  
BIOLOGICAL SCIENCES  
IBS 502 : Evolutionary Biology

Time : 3 Hours

Max. Marks : 70

**Instruction** : Illustrate *wherever* necessary.

SECTION – A

1. Explain/define **any ten** of the following in **three to five** sentences. (10×2=20)
- Mitochondria
  - Law of segregation
  - Fitness
  - Balanced polymorphism
  - Species
  - Allele
  - Node
  - Rooted tree
  - Predation
  - Symbiosis
  - Bipedalism
  - Instinct behavior.

SECTION – B

Write critical notes on **any four** of the following. (4×5=20)

- Origin of life molecules.
- Group selection.
- Random Genetic drift.

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5. Morphological and Biological concepts of Speciation.
6. Inheritance of Social behavior.
7. Biological interaction within population.
8. Constriction of phylogenetic tree.

SECTION – C

Give a comprehensive account on **any two** of the following.

**(2×15=30)**

9. Evidences for evolution.
  10. Isolating mechanism.
  11. Insects and host plant interaction.
  12. Cultural and social evolution of Hominids.
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