

M.Sc. (Zoology) (NEP Pattern) Semester-IV
04ZOO001 / 04MSCZ001 - DSC Paper-I : Evolution and Genetics

P. Pages : 1

Time : Three Hours



GUG/S/25/16382

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Illustrate your answer with suitable diagram.

1. Give detail account on direct evidences of evolution. 16

OR

Write note on:

- a) Urey-Miller's experiment
- b) Origin and evolution of ribonucleoprotein (RNP) world

2. Give detail account on theories of organic evolution. 16

OR

Write notes on:

- a) Micro-evolution and Macro-evolution.
- b) Types of isolating mechanism.

3. Give detail account on DNA super-coiling. 16

OR

Write notes on:

- a) Structural characteristics of viral and bacterial chromosome.
- b) Regulation of Gene Expression.

4. Give detail account on Recombinant DNA technology. 16

OR

Write notes on:

- a) Human genome project.
- b) Application of genetic engineering.

5. Attempt the following 16

- a) structure of cosmos
- b) Phyletic evolution
- c) Sex-Linked inheritance
- d) Protein Based Products
