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Exam. Code : 103203 Subject Code : 1325

B.A./B.Sc. 3rd Semester ZOOLOGY (Evolution) Paper—Zoo-IIIA

Time Allowed—3 Hours] [Maximum Marks—35 Note :— The question paper comprises TWO Sections A and B. Section A is compulsory. It has SEVEN short answer type questions of 1 mark each. Section B has Units I—IV. The candidates shall attempt FOUR questions, ONE from each unit. All questions carry equal marks.

SECTION-A

- I. (i) Name the gases used in Miller's experiment to demonstrate chemical origin of life.
 - (ii) Galapagos finches.
 - (iii) Define "Biogenetic Law" given by Haeckel.
 - (iv) What is genetic drift?
 - (v) Allopatric and Sympatric Speciation.
- (vi) Microevolution refers to
 - (vii) Define convergent and divergent evolution. $1 \times 7 = 7$

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SECTION—B UNIT—I

- II. Explain Darwin's Theory of Organic Evolution.
- III. On the basis of indirect evidence that complex organic molecules could have formed conditions for life, explain the morphological and embryological evidences supporting organic evolution.

UNIT-II

- IV. Define gene pool and explain the role of alleles and mutation in evolution.7
- V. What is Speciation and give its different types. Explain Hardy Weinberg Principle ? 1+6

UNIT-III

- VI. Explain in detail the evolution of *Homo sapiens*. 7
- VII. Define fossils and explain their significance. How can one interpret fossil record ? 7

UNIT-IV

- VIII. Explain with examples Catadromous, Anadromous and Diadromous migration in fishes.7
- IX. Define the terms-Adaptive radiation, Extinction, Evolutionary trees. What are the various adaptations which enable a bird to fly ?
 3.5+3.5

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