Model Question Paper
Zoology-Theories of Evolution-Part III
12th Standard

Biology

Reg.No. :

I.Answer all the questions.
II.Use blue pen only.
III.Question number 15 is compulsory.

Time : 01:00:00 Hrs

Total Marks : 55

Part-A

5 x 1 = 5

1) Which law of Lamarck becomes basic for the formation of Germ Plasm theory?

(a) Parts of the body gradually increase in size   (b) Origin of needed organ   (c) law of use and disuse   (d) Inheritance of acquired characters

2) Pick out the mating isolation method

(a) gametic isolation   (b) ethological isolation   (c) hybrid sterility   (d) ecological isolation

3) Significant factor in the origin of new species on islands and other isolated population is

(a) genetic drift   (b) natural selection   (c) gene Mutation   (d) recombination

4) Theory of inheritance of acquired characters was proposed by

(a) Alfred Russel Wallace   (b) Darwin   (c) Lamarck   (d) Mc.Dougall

5) If nature allows, in how many years a pair of elephants can produce 19 million elephants?

(a) 500 years   (b) 750 years   (c) 1000 years   (d) 250 years

Part-B

5 x 3 = 15

6) Define First and second law of Lamarck. Give and example.

7) State the theory of inheritance of acquired characters.

8) State Germ plasam theroy.

9) State Hardy - weinberg law.

10) What is Founder principle?

Part-C

3 x 5 = 15

11) Give an account of different type of species.(or) Explain speciation.

12) Describe the Polymorphism.

13) Give an account of different types of species/speciation.

Part-D

2 x 10 = 20

14) Enumerate the principle of Lamarckism in support of evolution.

15) a)   What are the conditions under which Hardy-Weinberg law operates?

(OR)

b)   Write an essay on theory of Natural selection.

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