



Shri Shivaji Education Society Amravati's  
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Department of Zoology  
BSc-II (Sem-III)



**Fill in the blank :**

1. Darwin's evolutionary theory is \_\_\_\_\_
2. Use and disuse law was proposed by \_\_\_\_\_
3. The geographical speciation is also called as \_\_\_\_\_
4. In Hardy -Weinberg equilibrium the gene frequency remain \_\_\_\_\_ generation after generation.
5. The struggle between the members of one and the same species is called \_\_\_\_\_ struggle.
6. Survival of the \_\_\_\_\_ is the core of the natural selection theory.
7. Genetic drift was first described by \_\_\_\_\_
8. \_\_\_\_\_ in ostrich are example of vestigial organ .
9. Analogous organ are actually the result of \_\_\_\_\_ evolution.
10. \_\_\_\_\_ is an example of divergent evolution.

**Multiple choice questions:**

1. Struggle for existence is the deduction of
  - a) Lamark
  - b) Wallace
  - c) De veriece
  - d) Darwin
2. Hardy-weinberg law states the conservation of
3.
  - a) Gene pool
  - b) Gene mutation
  - c) Gene frequency
  - d) Genetic drift
4. The hardy-Weinberg law is represented by a simple formula
  - a)  $A+B=C$
  - b)  $P+q=1$
  - c)  $2p+q=1$
  - d)  $2p+2q=1$
5. The organ in complete disuse becomes vestigial was proposed by
  - a) De veries
  - b) Lamarck
  - c) Darwin
  - d) Huxley

6. Analogous is an example of

- a) Divergent evolution
- b) Coevolution
- c) Convergent evolution
- d) Parallel evolution

7. Adaptive radiation in mammals is an example of

- a) Divergent evolution
- b) Coevolution
- c) Convergent evolution
- d) Parallel evolution

8. Darwin's theory of evolution is known as

- a) Inheritance of acquired characters
- b) Abiogenesis
- c) Natural selection
- d) Cosmozoic

9. "inheritance of acquired characters" theory was proposed by

- a) Pasteur
- b) Lamarck
- c) Redi
- d) Darwin

10. The total number of genes present in a Mendelian population is

- a) Gene frequency
- b) Genotype
- c) Gene pool
- d) Gene mutation

11. Evolution of long neck in giraffe is the result of

- a) Continuous disuse
- b) Continuous use
- c) New need
- d) All of the above

**Answer in one sentence:**

- 1) What is coevolution?
- 2) Which theory was proposed by Lamarck?
- 3) What is Hardy-Weinberg equilibrium?
- 4) Define gene frequency
- 5) What is gene pool?
- 6) What are analogous organs?

- 7) **What is convergent evolution?**
- 8) **What is speciation?**
- 9) **Define sympatric speciation?**
- 10) **What is genetic drift?**
- 11) **Who proposed the theory of natural selection?**
- 12) **What is coevolution?**

**Write in brief of the following:**

- 1) **Darwinism**
- 2) **Lamarckism**
- 3) **Neo-Darwinism**
- 4) **Convergent evolution**
- 5) **Divergent evolution**
- 6) **Parallel evolution**
- 7) **Coevolution**
- 8) **Allopatric speciation**
- 9) **Sympatric speciation**
- 10) **Gene pool**
- 11) **Gene frequency**
- 12) **Hardy-Weinberg equilibrium**

**Answer Key:**

**Fill in the blanks:**

1.Natural Selection, 2.Lamarck, 3.Allopatric Speciation, 4.Constant,5.Intraspecific,  
6.Fittest, 7.Sewall Wright, 8.Wings, 9.Conergent, 10.Divergent Evolution

**Multiple choice question:**

1(d), 2(c), 3(b), 4(b), 5(c), 6(a), 7(c), 8(b), 9(c), 10(b)