



BIOLOGY

NEET & AIIMS

Mock test-33: Zoology

Example

1. Which of the following is not a postulate of the theory of use and disuse of organ?

A. Development of an organ is directly proportional to its use

B. Acquired character of an organism is transmitted to its offspring

C. Accumulation of variations over a period of time leads to formation of new forms

D. Internal forces tend to increase the size of body

Answer: C



Watch Video Solution

2. Who among the following scientist gave theory of germplasm and discard the theory of use and disuse of organ?

A. A.Weisman

B. Alferd Walface

C. Hugo-de-Vries

D. Thomas Malthus

Answer: A



Watch Video Solution

3. The phrase " survival fittest " was used by

A. Darwin

B. Alferd Walface

C. Thomas Malthus

D. Herbert Spencer

Answer: D



Watch Video Solution

4. Which of the following is key concept of Darwin theory of evolution?

- A. Branching descent
- B. Use and disuse of organ
- C. Natural selection
- D. Both (1) and (2)

Answer: D



Watch Video Solution

5. Which of the following cannot be considered as a feature of mutation?

A. Are random and directionless

B. Can be small and large

C. Can cause evolution suddenly

D. Can bring change only when they
accumulation over period of time

Answer: D



Watch Video Solution

6. If the frequency of occurrence of dominant allele A is p and that of recessive allele a is q . Then according to Hardy Weinberg law q is equal to.

A. $1 + p$

B. $1 - p^2 - 2pq$

C. $1 - p$

D. Both (1) and (2)

Answer: C



Watch Video Solution

7. Which of the following is an incorrect statement?

A. Genetic drift can bring about the change in gene frequencies in any direction

B. Bottle neck effect explain evolution of Darwin finches on Galapagos island

C. Gene flow is exchange of gene between two different population of a species

D. Hardy-Weinberg principle stated that sum total of all allelic frequencies in a large population is 1

Answer: B



View Text Solution

8. What kind of natural selection operates, when nature selects only one extreme trait of a character?

A. Stabilizing selection

B. Disruptive selection

C. Directional selection

D. Normalising selection

Answer: C



Watch Video Solution

9. Which of the following outcomes can be concluded on the basis of Lederberg's replica plating experiment?

A. Mutations are directed by environment

B. Genetic recombination is ultimate source of variation

C. Mutations are pre-adaptive

D. New environment induces mutation in population

Answer: C



Watch Video Solution

10. which of the following phenomenon do not cause any change in genetic equilibrium of population?

A. Mutation

B. Gene flow

C. Natural selection

D. Random mating

Answer: D



Watch Video Solution

11. Which of the following give the correct representation of Hardy-Weinberg equation?

A. $p + q + 2pq = 1$

B. $(p + q)^2 = 1$

C. $p^2 + 2pq + q^2 = 1$

D. Both(2) and (3)

Answer: D



Watch Video Solution

12. Which of the following are incorrect statements? (a) Crossing over during fusion of gametes result in formation of new combination of characters, (b) Natural selection can lead to change in allelic frequencies, (c) According to Lamarck, use and disuse of organs is major driving force behind evolution of life forms, (d) increase in number of heterozygotes [HbA/Hbs] over homozygotes [HbA/HbA or Hbs/Hbs] in malaria prone area is an example of directional selection.

A. a and c

B. b and d

C. a and d

D. c and d

Answer: C



View Text Solution

13. Effect of genetic drift is clearly seen in

A. Small population

B. Large population

C. At species level

D. At individual level

Answer: A



Watch Video Solution

14. Which of the following is a correct match?

A. A.Weismann-Theory of Pangensis

B. Hugo-de-Vries--Genetic drift

C. Oparin-Origin of life

D. Thomas Malthus - Philosophique

Zoologique

Answer: C



Watch Video Solution

15. Which of the following give the correct explanation about Darwin's concept fitness?

- A. A tiger who is able to mate with many tigress but produce only one cub
- B. A tiger who is stronger than all other member of group but do not produce any cub
- C. A tiger who mated with many tigress and produce large number of cub
- D. Both (1) and (3)

Answer: C



Watch Video Solution

