

ST. LAWRENCE HIGH SCHOOL

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A JESUIT CHRISTIAN MINORITY INSTITUTION

Solutions - 28

Class: XII Sub: Biological Science Date: 07.07.2020

Topic: Ch 7 (part 6) Natural selection – It's types and Industrial melanism

F.M.: 15

Choose the correct option:

(1x15=15)

- 1. The theory of Natural Selection is explained in Darwin's book:
 - a) The origin of Species by Natural Selection b) Origin of species c) The book of Natural selection d) none of these

Answer: The origin of species by Natural Selection (a)

- 2. The following is not a postulate of Darwinism:
 - a) Over production b) Survival of the fittest c) Acquisition of new needs by use and disuse d) Natural Selection

Answer: Acquisition of new needs by use and disuse (c)

- 3. The following is not the driving force in bringing about evolution:
 - a) Mutation b) Recombination c) Inert and unchanged environment d) Hybridization

Answer: Inert and unchanged environment (c)

- 4. The dissimilarity present between two individuals is called:
 - a) Mutation b) Recombination c) Pangenes d) variation

Answer: Variation (d)

- 5. ----- is the physical force that assists in accumulation of variations in a group of individuals of a population:
 - a) Adaptation b) Isolation c) Natural selection d) all of these

Answer: Isolation (b)

- 6. A large population of interbreeding individuals on which the evolutionary forces act is called:
 - a) Panmictic b) Mendelian c) Experimental d) Both (a) and (b)

Answer: Both (a) and (b) (d)

- 7. The phenomenon of preference of darker coloured organisms over light coloured organisms is called:
 - a) Disruptive selection b) Industrial melanism c) Stabilizing selection d) none of these

Answer: Industrial melanism (b)

- 8. A type of Natural selection which favours variants at both ends of population distribution is called:
 - a) Directional b) Disruptive c) Stabilizing d) none of these

Answer: Disruptive selection (b)

- 9.selection removes extremes variants from the population and intermediate phenotype is favourable:
 - a) Directional selection b) Disruptive selection c) Stabilizing selection d) all of these

Answer: Stabilizing selection (c)

- 10. In a Directional selection the graph of evolved population shows:
 - a) Shift of the original graph on one side b) two distinct peaks c) rise in the peak of original population curve d) All of these

Answer: Shift of the original graph on one side (a)

- 11. Directional selection is seen in the evolution of:
 - a) Horse b) man c) Biston betularia d) All of these

Answer: All of these (d)

- 12. After industrialization Coloured moths were susceptible to the predators:
 - a) black b) grey peppered c) yellow d) pink

Answer: grey peppered (b)

- 13. During the next 50 years of industrial revolution the population of dark cloured moths increased from 1% to %
 - a) 50 b) 200 c) 99 d) 25

Answer: 99 (c)

- 14.has operated on eliminating genes for light coloured moths and gradual increase of genes of dark pigment:
 - a) Natural selection b) Adaptation c) Isolation d)All of these

Answer: Natural selection (a)

- 15. Example of Natural selection:
 - a) Presence of DDT resistant mosquitoes b) Presence Sickle cell anaemic individuals c) Presence of *Biston betularia carbonaria* over *Biston betularia* d) All of these

Answer : All of these (d)