



BIOLOGY

BOOKS - MBD -HARYANA BOARD

EVOLUTION

Example

1. Explain antibiotic resistance observed in bacteria in light of Darwinian selection theory.



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2. Find out from newspapers and popular science articles any new fossil discoveries or controversies about evolution.



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3. Attempt giving a clear definition of the term species.



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4. Try to trace the various components of human evolution



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5. Find out through internet and popular science articles whether animals other than man have self-consciousness.



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6. List 10 modern-day animals and using the internet resources link it to a corresponding ancient fossil. Name both.



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7. Describe one example of adaptive radiation.



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8. What is divergent evolution? Explain taking an example of plants.



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9. Can we call human evolution as an adaptive radiation? Explain.



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10. Using various resources such as your school library or the internet and discussions with your teacher, trace the evolutionary stages of any one animal say horse.



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11. Where did life originate on the earth ?



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12. Give another name for origin of life.



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13. The surprise products in the Miller's experiment were



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14. Arrange the following substances in a proper sequence with regard to the formation

of chemical constituents at the time of origin
of life:

Sugar, methane, nucleic acid and amino acid.



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15. What do you mean by chemogeny?



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16. Define biogeny



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17. What were Eobionts?



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18. Mention the type of nutrition in the cells originated first during the origin of life.



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19. Which group of organisms were responsible for appearance of free oxygen in the atmosphere of the primitive earth?



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20. What is meant by the term fossil record?



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21. The most direct evidence of organic evolution is :



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22. Name three recent eras of geological time



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23. What is appentency?



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24. Consider a thorn in Bougainvillea and a tendril in cucurbita. Are these two organs homologous or analogous? Give reason.



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25. Suppose a child is born with a tail measuring 3 cms. Why is the child not considered more evolved than normal man? Explain.





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26. Which epoch is called "age of mammals and angiosperms"?



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27. Evolution is a discontinuous process. Is it correct ?



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28. Give the three key factors of the modern concept of evolution



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29. Which other term can be used for natural selection?



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30. The ultimate source of organic variation is

:



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31. What is the cause of struggle for existence?



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32. Name two plants which have been produced by artificial selection.



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33. What is proved by the phenomenon of resistance to DDT in mosquitoes?



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34. What is population genetics?



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35. Define gene migration.



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36. Genetic drift



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37. Name three types of natural selection.



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38. The foremost advantage of bipedal locomotion is



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39. What is the scientific name of Java and Peking man?



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40. Write the name given to fossil man of Shivalik hills in India.



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43. Give an example of missing link.



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44. Name the gases used by Urey and Muller in their experiment.



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45. What is a coacervate ?



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46. Define organic evolution in three words.



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47. Which technique is used to know the age of fossils?



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48. Define organic evolution in three words.



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49. Give two example of adaptive radiation.



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50. Why are the theories of special creation and spontaneous generation not accepted ?



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51. State the theory of eternity of life.



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52. Briefly explain theory of biogenesis .



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53. Where did life originate ? Explain.



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54. Write the composition of primitive earth's atmosphere.



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55. State the role of sun in the origin of life.



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56. List characteristics of coacervates.



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57. Differentiate coacervate droplets and proteinoid microsphere.



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58. Briefly describe formation of first living cell.



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59. Write the contribution of Urey and Miller.



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60. What was S.W. Fox's contribution to the chemical theory of the origin of life ?



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61. How were first formed heterotrophs converted into present day autotrophs?



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62. Distinguish between cosmic evolution and organic evolution. What is evolutionary biology?



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63. What is convergent evolution?



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64. What are homologous organs ? Cite one example



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65. Define analogous organs. Give one example



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66. Write significance of vestigial organs.



Watch Video Solution

67. Define atavism. Give one example of atavism.



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68. What is significance of connecting links?



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69. What are fossils?



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70. Are the fossils being formed at present time?



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71. Discuss the palae4otological evidences in support of evolution.



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72. Birds have evolved from reptiles "Explain.



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73. What is the significance of Archaeopteryx in the study of organic evolution ?



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74. Discuss geological time scale as evidence of evolution.





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75. How has the study of fossils helped in convincing scientists that organisms have come into existence through evolution ? How can the age of a fossil be determined ?



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76. Name six biogeographical realms



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77. Theories of Evolution



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78. Discuss the importance of artificial selection in the derivation of the concept of natural selection.



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79. What is the main difference between Darwin's theory of natural selection and De Vreis mutation theory?



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80. What is competition in nature? How does it affect the plant and animal life? Mention some examples.



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81. List 3 mechanisms by which variant genotypes can be produced in nature



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82. Why is the frequency of sickle cell anaemia more in the malaria prone areas?



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83. How is artificial selection different from natural selection?



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84. Describe three mechanisms by which genetic variability can be produced in nature.



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85. Discuss the role of variation in evolution



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86. The homology in haemoglobin of man and gorilla is 99 percent. What explanation would you give for this finding ?



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87. Differentiate ape and man.



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88. Write explanatory note on the remote ancestors of man.



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89. Chronological sequence of evolution of the genus Homo is



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90. Give important characteristics of the skull of Australopithecus.



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91. At what stage of evolutionary history of man tool making started?



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92. What role fire played in the early evolutionary history of man?



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93. Short note on coacervates?



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94. What are vestigial organs? Give examples.



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95. Define connecting link(In regard to evolution)and give its one example from vertebrates.



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96. Explain briefly Recapitulation Theory.



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97. State and explain Biogenetic law.



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98. Ontogeny repeats phylogeny.Explain.



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99. What is biogeography ?How does the distribution of naimals and plants support evolution?



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100. List the main points of Lamarck's theory.



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111. Explain modern or chemosynthetic theory of origin of life.



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112. What is variation ? Name the basic processes that cause variation among organisms. Discuss role of migration in evolution



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113. What is natural selection in modern terms? Elucidate the three different effects of natural selection on variation.



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114. Write notes on:

Gene flow



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115. Write notes on:

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116. Write notes on:

Allopatric speciation



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117. Write notes on:

Sympatric speciation



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118. Write notes on:

Balancing selection



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119. Write notes on:

Hybrid sterility



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120. Write notes on:

Biological species concept



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121. Write short notes on:

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122. Write short notes on:

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136. Can we call human evolution as adaptive radiation? (Say, Yes or No).





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Explain.



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159. Name two varieties of plants which have been obtained by artificial selection.



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215. RECAPITULATION THEORY



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241. Describe present day concept of evolution.



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242. Describe in brief the embryological evidences in support of organic evolution



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Exercise

1. Fill in the blanks

"Theory of Inheritance of Germplasm" was

propoed by



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2. Fill in the blanks

Mutage effects of X-ray were confirmed by



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3. Fill in the blanks

..... and jointly proposed the "Theory of Natural Selection".



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4. Fill in the blanks

Origin of short-legged Ancon sheep variety supports the theory.



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5. Fill in the blanks

..... causes the recombination of genes.



[Watch Video Solution](#)

6. Fill in the blanks

the process which prevents interbreeding between related groups of living organism is called..... .



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7. State true or false:

The membrane bound molecular aggregates are called coacervates.



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8. State true or false:

The first organisms formed were autotrophs.



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9. State true or false:

the book "Origin of life" was written by Oparin and Haldane.



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10. State true or false:

The primitive atmosphere was reducing .



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11. State true or false:

Tendrill of Passiflora and tendrill of Pisum are analogous organs.



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12. State true or false:

The cranial capacity of Java man was 700 cc.



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13. State true or false:

The cranial capacity of Homo sapiens man is
1700 cc.



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14. Coin one word for the following statements:

A group of organisms similar in certain basic characters and interbreeding under natural conditions to produce the fertile individuals.



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15. Coin one word for the following statements:

Origin of new species from pre-existing species.



[Watch Video Solution](#)

16. Coin one word for the following statements:

When two populations of a species become reproductive isolated and become different species due to certain geographical barriers.



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17. Coin one word for the following statements:

Sudden, large and inheritable changes in the genetic material.



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18. Coin one word for the following statements:

Morphological similar but reproductively isolated species.



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19. Which cannot be explained by Lamarckism ?

- A. Elongation of neck of giraffe
- B. Loss of tail in human being
- C. Weak progeny of a nobel laureate
- D. None of these.

Answer:



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20. Which of the following provides most evident proof of evolution?

A. Fossils

B. Morphology

C. Embryo

D. Vestigial organs.

Answer:



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21. Which one of the following amino-acids was not found to be synthesized in Miller's experiment

A. Glycine

B. Aspartic acid

C. Glutamic acid

D. Alanine.

Answer:



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22. Species occurring in different geographical area are called as

A. Sibling

B. Neopatric

C. Sympatric

D. Allopatric.

Answer:



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23. Lamarck's theory of evolution is called :

- A. Survival of the fittest
- B. Special creatio theory
- C. Inheritance of acquired characters
- D. None of these.

Answer:



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24. Cause of speciation is

A. Random mating

B. Hybridization

C. Isolation

D. Migration.

Answer:



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25. Sickle-cell anaemia, the best example of natural selection, is due to gene modification related to amino acid of

- A. First b chain
- B. Second b chain
- C. Second a chain
- D. First a chain.

Answer:



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26. Darwin's theory does not include

- A. Natural selection

B. Survival of the fittestt

C. Evolutin through inheritance

D. Struggle for existence.

Answer:



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27. A bacterial culture is treated with streptomycin and a cast is made . A few columns are able to survive due to

A. Selection

B. Adaptation

C. Induced mutation

D. Mimicry.

Answer:



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28. Darwin is associated with

A. Natural selection

B. Mutation

C. Inorganic evolution.

D. All of the above

Answer:



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