



BIOLOGY

BOOKS - SANTRA BIOLOGY (BENGALI ENGLISH)

EVOLUTION AND ADAPTATION

Exercise Multiple Choice Questions

1. Which one is the vestigial organ of man?

A. Stomach

B. Pancreas

C. Colon

D. Appendix

Answer:



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2. Who proposed the theory of mutation ?

A. Mendel

B. Darwin

C. Lamarck

D. De-Vries

Answer:



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3. Who proposed the theory of Natural Selection ?

A. Lamarck

B. De-Vries

C. mendel

D. Darwin

Answer:



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4. Who proposed the idea of 'Inheritance of Acquired characters'?

A. De-Vries

B. Haldane

C. Darwin

D. Lamarck

Answer:



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5. Who first used the term "Struggle for existence" ?

A. Weismann

B. Mendel

C. Lamarck

D. Darwin

Answer:



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6. negatively geotropic roots are found in

A. Cactus

B. Sundari

C. lotus

D. Paddy

Answer:



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7. Number of air-sacs of plgeon are

A. 7

B. 7 pair

C. 9 pair

D. 9

Answer:



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8. Chemosynthetic theory was proposed by

A. Miller & Urey

B. Oparin & Haldane

C. Darwin & Lamarck

D. Weismann & De-Vries

Answer:



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9. Which one is a halophytic plant ?

A. Sundari

B. Cactus

C. Lotus

D. None of them

Answer:



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10. In which animal pneumatic bone is found ?

A. Rat

B. Pigeon

C. Man

D. Fish

Answer:



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11. Original of life proposed by

A. Darwin

B. Lamarck

C. Oparin & Haldane

D. Mendel

Answer:



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12. Germplasm theory was proposed by

A. Weismann

B. Darwin

C. Lamarck

D. Mendel

Answer:



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13. How many eggs per day are liberated by round worm

A. 7,00,000

B. 2,00,000

C. 75000

D. 50000

Answer:



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14. Which animal exhibits the slowest reproductive rate ?

A. Tiger

B. Lion

C. Elephant

D. Fox

Answer:



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15. The gas which was absent in the environment during the origin of life is

A. Hydrogen

B. Oxygen

C. Methane

D. Ammonia

Answer:



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16. The feature of analogous organ is

A. Different in origin but functions are also different

B. Different in origin but functions are same

C. Indicates divergent evolution

D. Identical in origin and structure

Answer:



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Exercise Fill In The Blanks

1. Vermiform appendix is _____ organ in man.



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2. Microsphere is made from _____



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3. In amphibia and reptiles, the heart is _____ chambered.



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4. Number of air sacs of pigeons are _____



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5. The earliest ancestor in the evolution of horse is _____.



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Exercise Mention True Or False

1. Retia mirabilia is found in actus.



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2. Venus heart is present in fish.



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3. Scientific study of animal behaviour is known as ethology.



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4. The write of 'Origin of Species' is Hugo de vries.



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5. The fundamental tenet of the evolutionary theory of Drrwin is the process of natural selection.



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Exercise Very Short Answer Vsa Type Questions

1. Who proposed 'Natural selection theory ?



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2. Give an example of homologous organ.



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3. Write an example of analogous organ.



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4. In which reptile 4-chambered heart is found ?



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5. Name the ancestro of Equus.



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6. Give an example of vestigial organ of man.



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7. Name the fossil of the oldest fore father of Horse.





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8. Who proposed the theory of 'Inheritance of Acquired Characters'?



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9. In which plant breathing root is found ?



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10. Which plant show left modified into spine?



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11. Who proposed the 'Origin of life' concept ?



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12. Write the proposer of the 'Microsphere model" ?



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13. What is Drawinism ?



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14. Mention one morpological adaptation of actus of prevent transpiration.



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Exercise Short Answer Sa Type Questions

1. What is adaptation ?



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2. What is pneumatophore ?



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3. What is the role of swim bladder in fish ?



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4. State any two adaptive features of Catus.



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5. Define homologous organ.



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6. What do you mean by anaigous organ ?



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7. What is natural selection ?



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8. What is vestigial organ?



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9. What do you mean by 'Survival of the fittest' ?



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10. Define evolution.



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11. What is chemical evolution ?



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12. What is protocell



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13. Define Lamarckism.



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14. Write the name of reactants used and one organic compound formed in the experiment of Miller and Urey in connection with chemical origin of life.



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15. Write four important features modified in the evolution of horse.



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Exercise Long Answer La Type Questions

1. Describe the experiment performed by Miller and Urey along with proper diagram.



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2. Describe the steps of formation of first cell.



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3. What is Lamarckism. What are the supportive points on Lamarckism? [2 + 3]



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4. Define neo-Lamarckism. State about the criticism of Lamarckism. [2 + 3]



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5. Describe about the Darwin's theory of Natural Selection.



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6. Briefly state about the analysis on the reality of Darwin 's theory. What are the limitations of Darwinism? [3 + 2]



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7. What is neo Darwinism ? What are the difference between Darwinism and neo-Darwinism? [2 + 3



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8. State about the palaeontological evidence for the theory of evolution.



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9. Describe the evolutionary stages of hors.



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10. State about the evolution of heart of vertebrate. What is vestigial organ ? [3 + 2]



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11. Describe the embryonic stages of fish to mammals.



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12. Briefly describe the survival strategies of adaptation.



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13. What is adaptation ? Why adaptation is the key criteria in promotion of evolution ? [2 + 3]



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14. State about the morphological adaptive features of cactus.



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15. Show the major evolutionary events with the help of a flow chart.



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