



BIOLOGY

BOOKS - CBSE COMPLEMENTARY MATERIAL BIOLOGY (HINGLISH)

EVOLUTION

Questions Vsa

1. If abiotic origin of life is in progress on a planet other than earth, what should be the

conditions there ? Explains



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2. Name the person who proposed that population tends to increase geometrically while food production supply arithmetically.



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3. Name the scientist who had also come to similar conclusion as that of Darwin about

natural selection as mechanism of evolution.

Which place did he visit to come to conclusions ?



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4. State the two principal outcomes of the experiments conducted by Louis Pasteur on origin of life.



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Questions Sa I

1. Explain Oparin - Haldane theory of chemical evolution of life.



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2. How do Darwin and Hugo de varies differ regarding mechenism of evolution ?



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3. How did Louis Pasteur disprove spontaneous generation theory ?



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4. What are the two key concepts of Darwinian theory of evolution ?



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5. How would the gene flow or genetic drift affect the population in which either of them

happen to take place ?



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6. Write two difference between Homo erectus and Homo habilis?



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Questions Sa li

1. Describe the Hardy-Weinberg principle



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2. What is disturbance in Hardy-Weinberg genetic equilibrium indicative of Explain how it is caused.



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3. According to Hardy-Weinberg principle, sum total of all the allelic frequencies is



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4. Classify the following as examples of homology and analogy-Hearts of fish and crocodile



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5. Classify the following as examples of homology and analogy-Wings of butterfly and birds



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6. Classify the following as examples of homology and analogy-Eyes of Octopus and Mammals



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7. Classify the following as examples of homology and analogy-Tubers of Potato and sweet potato



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8. Classify the following as examples of homology and analogy-Thorns of Bougainvillea and spines of Opuntia



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9. Classify the following as examples of homology and analogy-Thorn of Bougainvillea and tendrils of Cucurbits.s



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10. Stanley Miller and Harold Urey performed an experiment by recreating in the laboratory the probable conditions of the atmosphere of the primitive earth. What was the aim of the experiment?



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11. Stanley Miller and Harold Urey performed an experiment by recreating in the laboratory the probable conditions of the atmosphere of the primitive earth. In what

forms was the energy supplied for chemical reactions to occur ?



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12. Stanley Miller and Harold Urey performed an experiment by recreating in the laboratory the probable conditions of the atmosphere of the primitive earth. For how long was the experiment run continuously? Name two products formed.



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13. Industrial Melanism' in peppered moth is an excellent example of 'Natural selection'.

Justify the statement.



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14. Fill up the blanks left in the table showing Era, period and organism.

Era	Period	Organism
Cenozoic	a	Modern man, Mammals, Birds, rise of monocot
	b	Tertiary
Mesozoic	c	Gingko, Gnetales
	d	Jurassic
Paleozoic	e	Early reptiles (extinct)
	f	Silurian



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15. In which part of the world, Neanderthal man lived ?



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16. What was Neanderthal man's brain capacity?



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17. Mention the advancement which Neanderthal man showed over Homo erectus.



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18. Figures given below are of Darwin's finches

?



Variety of beaks of Darwin's finches

(a) Mention the specific geographical area where these were found.

(b) Name and explain the phenomenon that has resulted in the evolution of such diverse species in the region.

(c) How did Darwin visit the particular geographical area ?



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19. Mention any two examples of evolution by anthropogenic action.



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Questions La

1. Is evolution a process or the end result of a process, discuss. Describe various factors that effect Hardy-Weingberg equilibrium.



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