

BIOLOGY

Board – ICSE

Class – 10

Topic – Human Evolution

1. Multiple choice questions
 1. The theory of use and disuse was given by
(A) Aristotle (B) Weismann (C) Lamarck (D) Vavilov Darwin
 2. Origin' of Species' was written by
(A) Oparin (B) Weismann (C) Lamarck (D) Darwin.
 3. Evolution is
(A) Progressive development of a race
(B) History and development of race along with variations
(C) History of race
(D) Development of race.
 4. Theory of inheritance of acquired characters was given by
(A) Wallace (B) Lamarck (C) Darwin (D) De Vries.
 5. Study of fossils is
(A) Palaeontology (B) Herpetology (C) Saurology (D) Organic evolution.
2. Name the following :
 1. Who was the first civilized man
 2. Ancestor of man that first stood erect was
 3. Which of the fossil of man had the largest cranial capacity
 4. The theory of natural selection was given by
3. Fill in the blanks :
 1. Organs or structures that have been reduced in size in an organism that suggests that they adapted to life without their use are called
 2. An inherited characteristic that increases the chances of survival is called
 3. The study of organisms at an early stage of development provides evidence of possible common ancestors between two different species is called
 4. A process of evolution in which traits that result in better fitness of an individual survives to the next generation is known as
 5. Organs found on different organisms that have similar structures but have evolved different uses for these structures are called

4. Answer the following
 1. What is evolution?
 2. Why did dark colored moths (*Biston betularia*) survive better in the 1890s?
 3. How does natural selection work
 4. How are modern humans and Neanderthals related?
 5. What are vestigial organs? Explain their role in evolution.
 6. Mention in order of evolution the different stages of human ancestors.
 7. Compare the features of *Australopithecus* with that of *Homo erectus*.
 8. The modern man has evolved from which human stage of evolution? Write any five important characteristics of *Homo sapiens*.
 9. Write three important differences between Lamarck's theory and Darwin's theory.
5. Answer the following question in one word:
 - (i) Scientific name of peppered moth.
 - (ii) Modified theory of Darwin.
 - (iii) Neanderthal man is successor of.
 - (iv) Who named man as "Homo sapiens".
6. What are the major changes takes place when ape like form evolved into humans.
7. Give the difference between the following terms :
 - (i) *Australopithecus* and *Homo erectus*
 - (ii) Struggle for existence and survival of the fittest
 - (iii) Lamarck's and Darwin's theory of evolution
 - (iv) Natural selection and variation
8. Multiple choice question:
 - (i) The vestigial organ in human
 - (A) Tail
 - (B) Nails
 - (C) Wisdom tooth
 - (D) Nostrils
 - (ii) Differences among organisms in an population is
 - (A) Natural selection
 - (B) Variation
 - (C) Acquired characters
 - (D) Darwinism
 - (iii) What is the principle of Lamarck's evolution theory:
 - (A) Natural selection
 - (B) Overproduction
 - (C) Inheritance of acquired characters
 - (D) Survival of the fittest
9. Define evolution. Explain various points of Darwin's evolutionary theory.

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10. Explain the Lamarck's theory of inheritance of acquired characters.
11. Describe the feature of the following:
 - (i) Homo sapiens sapiens
 - (ii) Homo sapiens
12. Name the six ancestral forms in their correct sequence through which Modern man evolve.
13. Explain natural selection with examples.
14. Define the following terms:
 - (i) Neo – Darwinism
 - (ii) Natural selection
 - (iii) Speciation
 - (iv) Industrial melanism.