



INDIAN SCHOOL NIZWA - WORKSHEET

BIOLOGY

CH-7 EVOLUTION

Name: _____

Date: _____

Class: XII-A

Answer the following questions

1. “Sweet potato tubers and potato tubers are result of convergent evolution.” Justify the statement.
2. State the significance of the study of fossils in evolution.
3. Mention the key concepts about the mechanism of biological evolution/ speciation according to:
 - (i) Hugo de Vries
 - (ii) Darwin
4. Give some examples showing common embryological patterns among vertebrates.
5. How do Darwin’s finches illustrate adaptive radiation?
6. Mention two key concepts of Darwinian’s theory of evolution. What was the concept proposed by Lamarck?
7. (a) State Hardy Weinberg principle. Name any two factors which affect it.
(b) Draw a graph to show that natural selection leads to directional change.
8. Explain convergent and divergent evolution with the help of one example each.
9. Name any three organs homologous to human hand. Why are they considered homologous?
10. Describe different types of natural selection. Give the diagrammatic representation of the operation of natural selection of different traits.
11. (a) Name the primates that lived about 15 million years ago. List their characteristic feature.
(b) Where was the first man like animal found?
(c) Write the order in which Neanderthals, *Homo habilis* and *Homo erectus* appeared on earth
State the brain capacity of each one of them
(d) When did modern *Homo sapiens* appear on this planet?
12. How does evidences from comparative anatomy and morphology favours the theory of evolution



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