



BIOLOGY

BOOKS - BAL BHARTI

HEREDITY AND EVOLUTION

Can You Recall

1. Answer in short:

Which component of the cellular nucleus of living organisms carries hereditary characters?



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2. Answer in short:

What do we call to the process of transfer of physical and mental characters from parents to the progeny?



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3. Answer in short:

Which are the components of DNA molecule?





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4. Answer in short:

What is the function of the appendix of our digestive system?



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5. Answer in short:

Are our wisdom teeth really useful for chewing the food?



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6. Answer in short:

Why did the huge animals like dinosaur become extinct?



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7. Answer in short:

Why are many species of animals and birds getting extinct?



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Observe And Discuss

1. Observe and discuss.

Observe the following pictures and discuss the characters observed.



Duck billed platypus



Lungfish

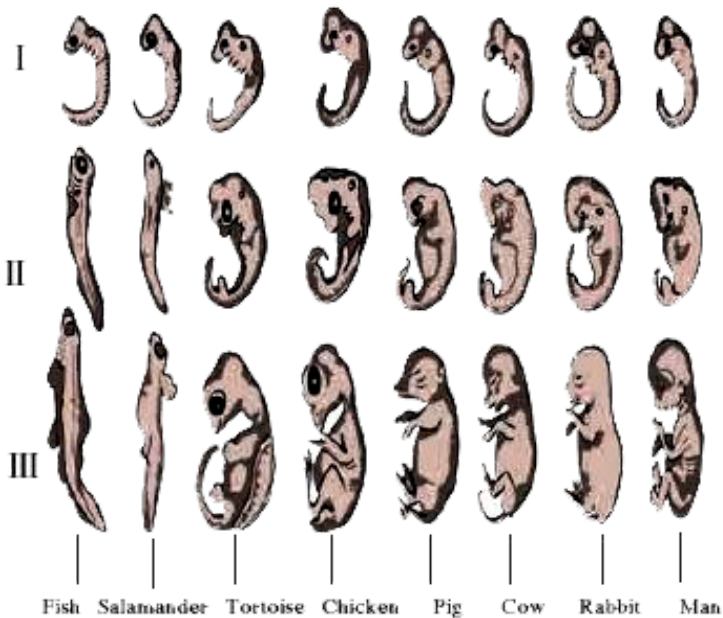


Peripatus



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2. Carefully observe the stages of embryonic development of some animals shown in fig.



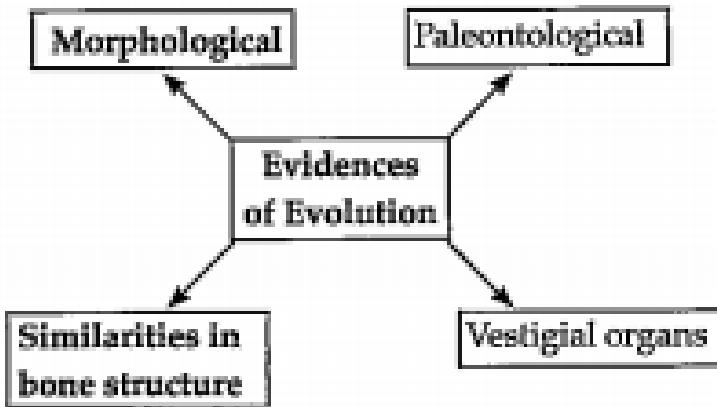
Embryos during different stages



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Exercise

1. Complete the following Chart:



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2. Read the following statements and justify same in your own words with the help of suitable examples.

i. Human evolutions began approximately 7 crore years ago.



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3. The causality behind the sudden changes was understood due to ___ principle of Hugo de Vries.





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4. Write short notes:

Dawin's theory of natural selection



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5. Define heredity. Explain the mechanism of hereditary changes.



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6. Define vestigial organs. Write names of some vestigial organs in human body and write the names of those animals in whom same organs are functional.



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Exercise Answer The Following Questions

1. How are the hereditary changes responsible for evolution?



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2. Explain the process of formation of complex proteins.



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3. Explain the theory of evolution and mention the proof supporting it.



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4. Answer the following question:

Explain with suitable examples importance of anatomical evidences in evolution.



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5. Answer the following question:

Define fossil. Explain importance of fossils as proof of evolution.



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6. Write evolutionary history of modern man.



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