

## Chapter 1 Science 2

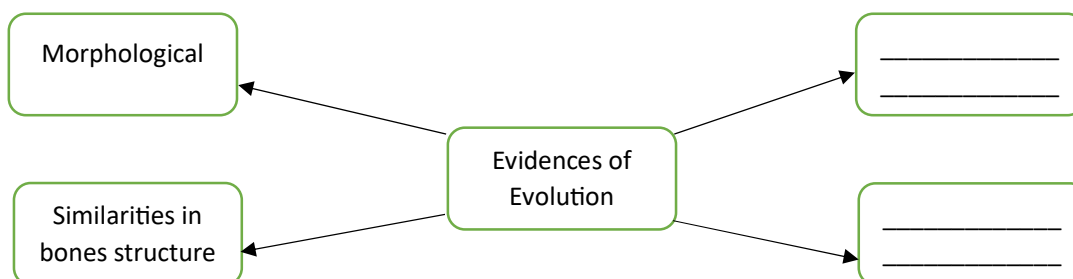
### Question Paper 1 (30 Marks)

#### Q1. Fill in the blanks (4 marks, 1 mark each)

- a. Human evolution began approximately \_\_\_\_ crore years ago.
- b. The proof for the fact that protein synthesis occurs through \_\_\_\_ was given by George Beadle and Edward Tatum.
- c. Transfer of information from molecule of DNA to mRNA is called as \_\_\_\_ process.
- d. Study of fossils is an important aspect of study of \_\_\_\_.

#### Q2. Complete the following diagram (2 marks)

Complete the diagram:



#### Q3. Write short notes (Answer any 2, 3 marks each, 6 marks total)

- a. Lamarckism
- b. Darwin's theory of natural selection
- c. Connecting link

#### Q4. Answer the following questions (Answer any 3, 4 marks each, 12 marks total)

- a. How are the hereditary changes responsible for evolution?
- b. Explain the process of formation of complex proteins.
- c. Explain the theory of evolution and mention the proof supporting it.
- d. Write the evolutionary history of modern man.

**Q5.** Define vestigial organs. Write names of some vestigial organs in the human body and write the names of those animals in whom the same organs are functional (4 marks)

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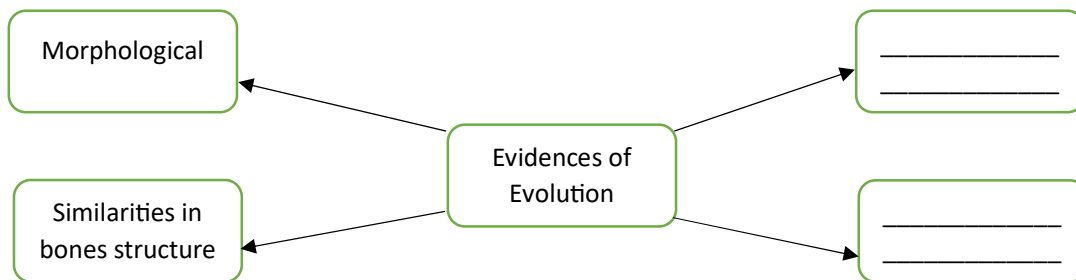
### Question Paper 2 (30 Marks)

#### Q1. Fill in the blanks (4 marks, 1 mark each)

- a. Geographical and reproductive isolation of organisms gradually leads to \_\_\_\_.
- b. There is evidence of fatal science among \_\_\_\_.
- c. The causality behind the sudden changes was understood due to the \_\_\_\_ principle of Hugo de Vries.
- d. Vestigial organs are \_\_\_\_ organs present in the human body.

#### Q2. Complete the following diagram (2 marks)

Complete the diagram:



#### Q3. Write short notes (Answer any 2, 3 marks each, 6 marks total)

- a. Embryology
- b. Evolution
- c. Darwin's theory of natural selection

#### Q4. Answer the following questions (Answer any 3, 4 marks each, 12 marks total)

- a. Explain with suitable examples the importance of anatomical evidence in evolution.
- b. Define fossil. Explain the importance of fossils as proof of evolution.
- c. Define heredity. Explain the mechanism of hereditary changes.
- d. Explain the process of formation of complex proteins.

**Q5.** Define vestigial organs. Write names of some vestigial organs in the human body and write the names of those animals in whom the same organs are functional (4 marks)