



ST. JOSEPH STUDY CENTRE

10th STD: Mid Term Test – 2

SCIENCE

Time: 2 Hrs / Total Marks: 50

I. Answer any 10 of the following questions:

[10 x 2 = 20]

1. What is particle velocity and wave velocity?
2. Define Echo? What is the minimum distance needed for an echo?
3. Why does sound travel faster on a rainy day than on a dry day?
4. Explain why the ceilings of concert halls are curved.
5. Write the classification of organic compounds.
6. Arrive at, systematically, the IUPAC name of the compound: $\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{OH}$.
7. Classify the following compounds based on the pattern of carbon chain give their structural formula.
 - a) Propane
 - b) Benzene
 - c) Cyclobutane
 - d) Furan.
8. Define biodegradable and bio non – degradable detergents.
9. What are vestigial organs?
10. What is archaeopteryx?
11. What are mutagens?
12. What are stem cells? Mention the types.

II. Answer any 6 of the following questions:

[6 x 5 = 30]

13. Explain about the factors affecting velocity of sound.
14. Explain about reflection at the boundary of denser and rarer medium.

15. What is called homologous series? Give any three of its characteristic.
16. The molecular formula of an alcohol is $C_4H_{10}O$. The locant number of its $-OH$ group is 2.
- Draw its structural formula.
 - Give its IUPAC name.
 - Is it saturated or unsaturated?
17. Give an account of Fossilization.
18. Write a short note on Mutation breeding.
19. With a neat-labelled diagram, explain the techniques involved in gene cloning.

-----ALL THE BEST-----

Test should be written under the supervision of your parents and get the answer paper signed from them.

No corrections should be made after the test timings. We expect your honesty.

Test Papers have to be submitted after the completion of all the 4 tests.

Submission Date of Test Papers: 1st December, 2nd December, 3rd December Timings: 9 AM – 12.30 PM / 5 PM- 7 PM