



# ST. JOSEPH STUDY CENTRE

12<sup>th</sup> STD: Unit Test - 5

BIOLOGY

Time: 1 Hr / Total Marks: 25

**I. Answer any 3 of the following questions:**

**[3 x 2 = 6]**

1. What is SCP?
2. What do you know about the word pBR 332?
3. Why tRNA is called an adapter molecule?
4. Give reasons: Genetic code is 'universal'.

**II. Answer any 3 of the following questions:**

**[3 x 3 = 9]**

5. What are restriction enzymes? Mention their types and role in Biotechnology.
6. What is bioremediation? Give examples.
7. What are the three structural differences between RNA and DNA?
8. Differentiate - Leading strand and lagging strand.

**III. Answer any 2 of the following questions:**

**[2 x 5 = 10]**

9. Explain the formation of a nucleosome.
10. Why the human genome project is called a mega project?
11. Write on the direct or vectorless gene transfer.

-----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: 27th Aug - 30th Aug 2021. Timings: 9.30 AM - 1.00 PM / 5.00 PM - 8.00 PM