



12th STD: Unit Test-8

CHEMISTRY

Time: 1 Hr / Total Marks: 25

I. Answer the following questions:

[5 x 2 = 10]

1. Define Arrhenius concept.
2. What is common ion effect?
3. Define buffer capacity and buffer index.
4. Calculate the pH of 0.04 M HNO₃ Solution.
5. Define solubility product.

II. Answer the following questions:

[3 x 5 = 15]

6. Differentiate Lewis acids and Lewis bases.
7. Derive Ostwald's dilution law.
8. Derive Henderson – Hasselbalch equation.

-----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 November, 2nd November, 3rd November Timings: 9 AM – 12.30 PM / 5 PM- 7 PM