



ST. JOSEPH STUDY CENTRE

12th STD: Unit Test - 5

PHYSICS

Time: 1 Hr / Total Marks: 25

I. Answer any 3 of the following questions:

[3 x 2 = 6]

1. Define Magnetic flux.
2. State coulomb's inverse law of magnetism.
3. What is meant by magnetic permeability?
4. State Tangent law.

II. Answer any 3 of the following questions:

[3 x 3 = 9]

5. Compare the properties of dia, para and ferro magnetism.
6. State Biot-savart law with illustration.
7. Explain how current loop function as a magnetic dipole.
8. State Lorentz force with special features.

III. Answer any 2 of the following questions:

[2 x 5 = 10]

9. Calculate the magnetic field at a point along the axial line of the magnetic dipole.
10. Discuss the working of cyclotron in detail.
11. Discuss the conversion of galvanometer into ammeter.

-----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