



ST. JOSEPH STUDY CENTRE

12th STD: Unit Test-8

PHYSICS

Time: 1 Hr / Total Marks: 25

I. Answer the following questions:

[5 x 2 = 10]

1. State de – Broglie Hypothesis.
2. What is Bremsstrahlung?
3. Explain the types of electron emission.
4. Briefly explain how Intensity of Incident light affects the photoelectric current.
5. Write about the Laws of Photoelectric effect.

II. Answer the following questions:

[3 x 5 = 15]

6. Explain the effect of potential difference on photoelectric effect.
7. Derive an expression for de Broglie wavelength of electrons
8. Briefly explain Davisson – Germer experiment which demonstrated the wave nature of electrons.

-----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