

SRDAR BHAGWATSINGH UNIVERSITY

Subject: study of modern Physics

class - B.Sc Chem
Phy

Topic - Quantum Mechanics

Assignment - 6

What is Scattering.

Define potential step.

Derive one dimensional potential across

Explain Quantum mechanical scattering and tunneling in one dimension across step potential.

Semi empirical mass formula

Write short note on

(a). Binding.

(b). Magic Numbers.

(c). Nuclear shell model

SARDAR BHAGWATSINGH UNIVERSITY

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class - B.Sc (Hons)
PHY

Topic - Quantum Mechanics

Assignment - 8

1. What is Scattering.
2. Define potential step.
3. Derive one dimensional potential across
3. Explain Quantum mechanical scattering and tunneling in one dimension across step potential.
4. Explain Semi empirical mass formula
5. Write short note on
 - (a). Binding.
 - (b). Magic Number.
 - (c). Nuclear shell model