

Quadrant IV – Assessment (Module –wise)

Programme: Bachelor of Science (Third Year)

Subject: Physics

Paper Code: PYD101

Paper Title: Quantum Mechanics

Unit 2: Applications of Schrödinger's Time Independent Wave Equation

Module Name: : One dimensional finite square step potential of height V_0 : Comparison of classical and quantum mechanical results for particle energy $E > V_0$ and $E < V_0$ – Part II

Module No: 28

Name of the Presenter: Dr. Ashish M. Desai

Short Answer-II

1. A particle is incident on a step potential V_0 at $x = 0$ from the left with energy $E > V_0$. Find out the expressions for the reflection and transmission coefficients.