

N-12/ODD/PHSP-501/345

TDC Odd Semester Examination, 2012

PHYSICS

(Pass)

(5th Semester)

Course No. : PHSP-501

**(Quantum Mechanics, Atomic
and Nuclear Physics)**

Full Marks : 35

Pass Marks : 12

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

Answer five questions, taking one from each Unit

UNIT—I

1. (a) Discuss the origin of quantum mechanics. 2
(b) What is photoelectric effect? Derive Einstein's photoelectric equation. 1+4
2. (a) Explain wave particle duality and hence obtain de Broglie's wavelength. 1+4
(b) What are meant by group velocity and phase velocity? 2

J13—800/365

(Turn Over)

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