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VIDYAPEETH

BATCH CODE: 19-PJ301EA 2025

SUBJECT NAME: CHEMISTRY

CHAPTER NAME:

Atomic Structure

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Lecture No. 01

By – Swapnil Sir

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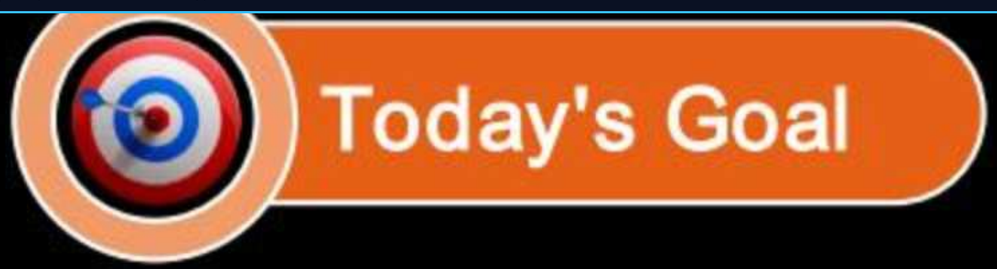

Subtopic

discovery of Electron | Proton | neutrons

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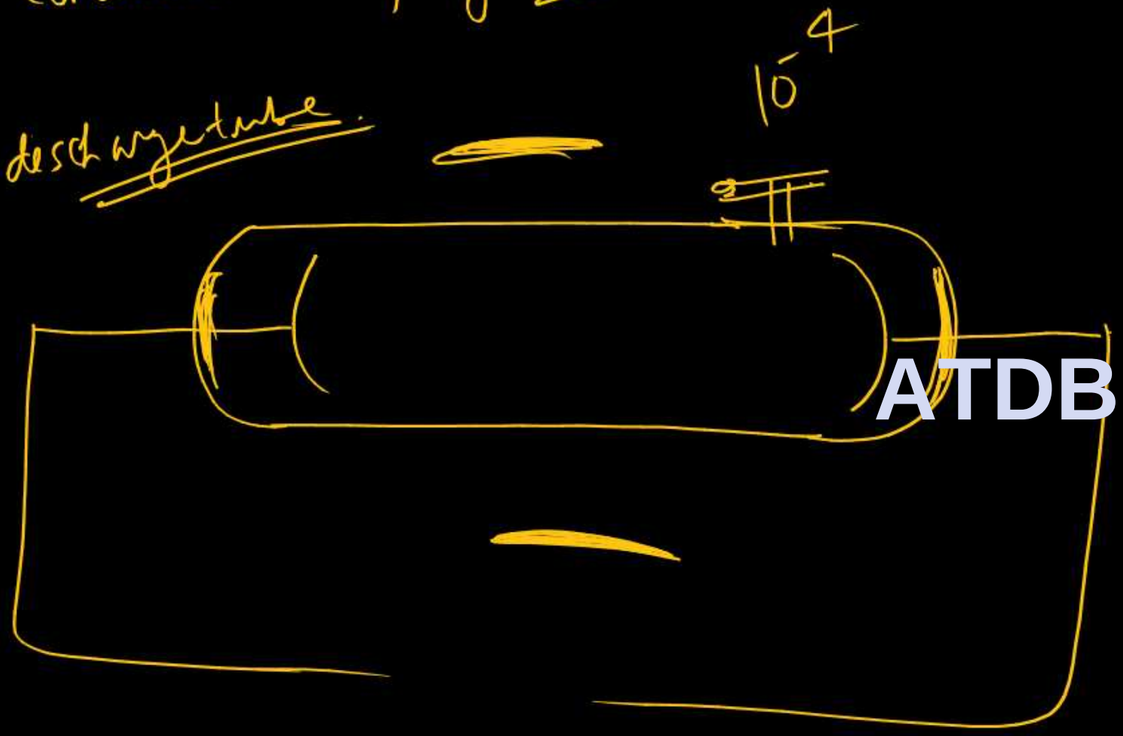
Atomic Structure :=>

Atomika → That can not be devide further. Atom

↳ Conduction through gases

discharge tube.



→ Cathode rays ⇒ electrons | $\frac{e}{m}$

→ Anode rays → protons | $\frac{e}{m}$

→ neutrons ⇒ Chadwick

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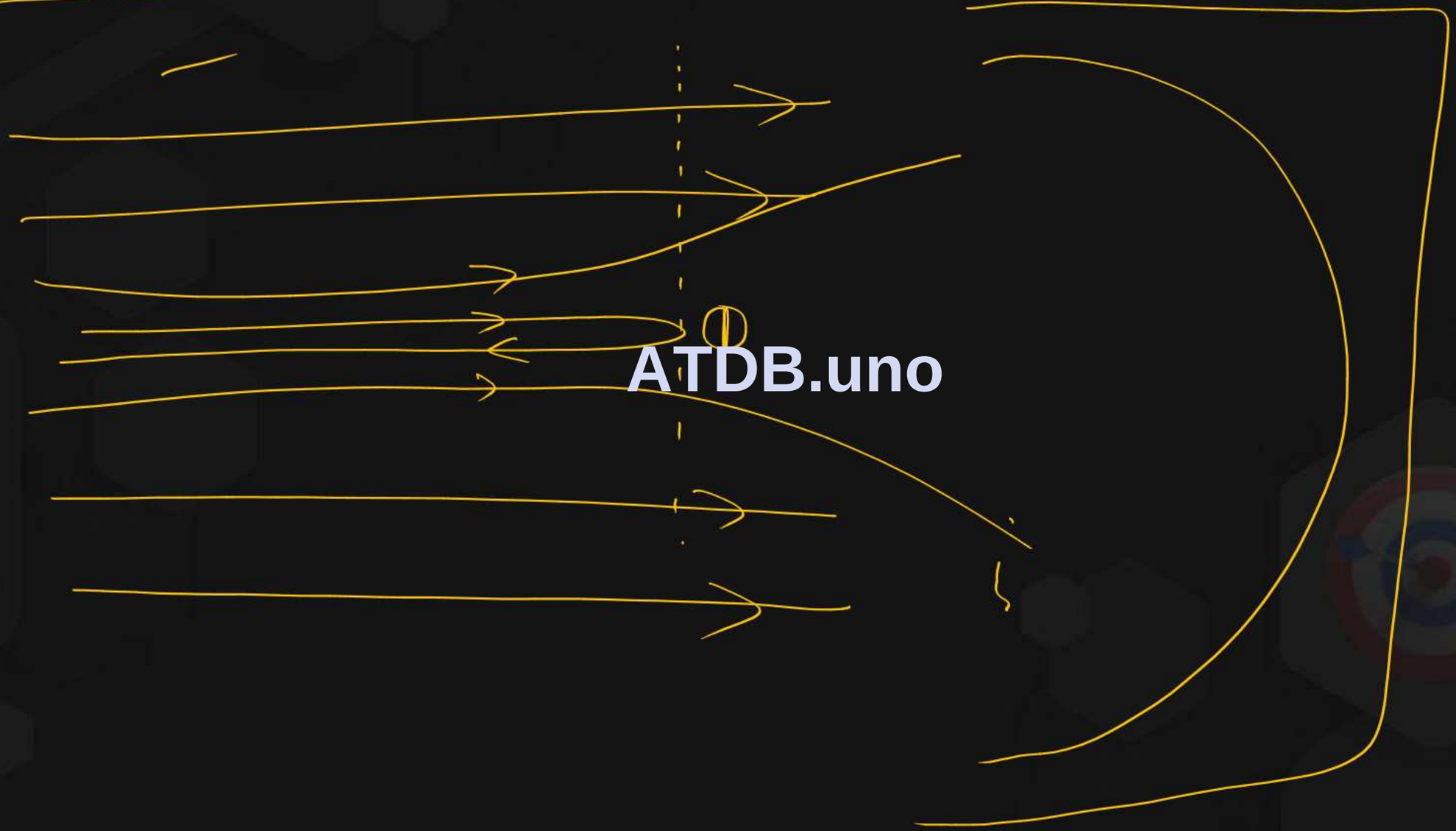
Rutherford α-particle scattering exp. → Gold foil

p+n



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Maxwell → Electro-magnetic radiation

Drawback of Rutherford's model

Bohr's Model

$$mvr = n\left(\frac{h}{2\pi}\right)$$

$n = 1, 2, 3, \ldots$

h = Universal Plank's Constant

$\frac{h}{2\pi}$ $\frac{2h}{2\pi}$ $\frac{3h}{2\pi}$ $\frac{4h}{2\pi}$

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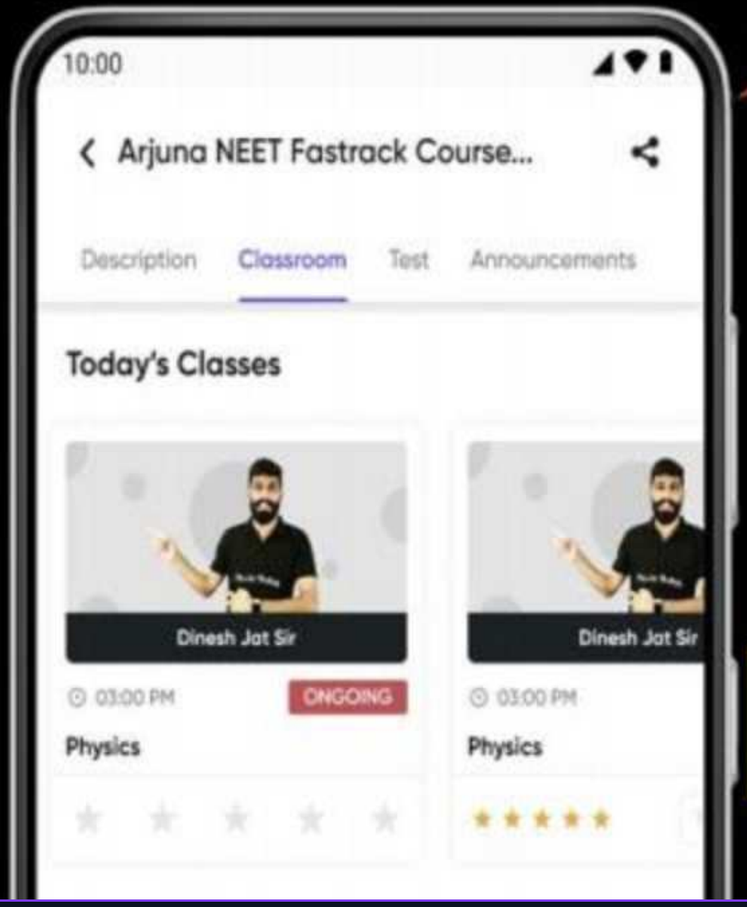
Solve the DPP and check Solution



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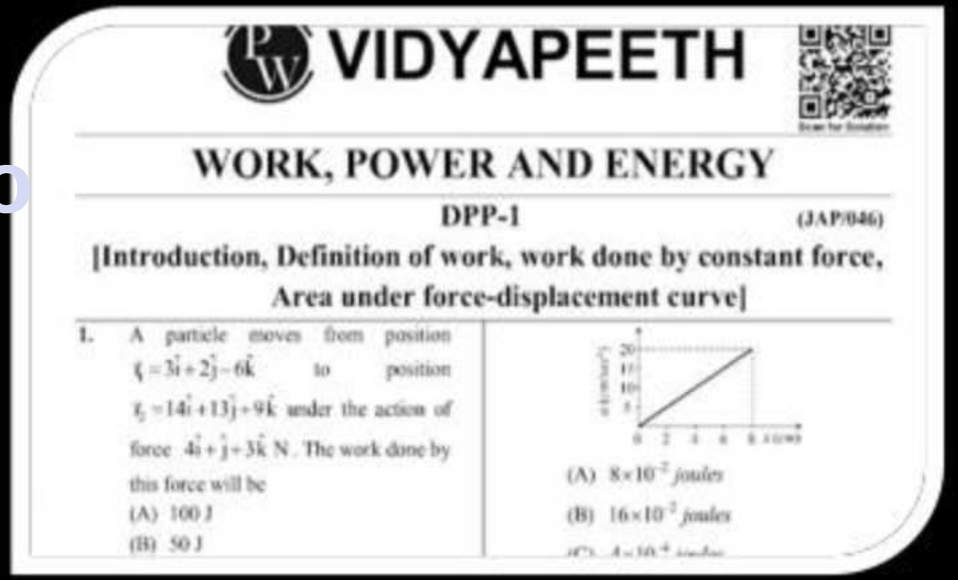

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WORK, POWER AND ENERGY

DPP-1 (JAP/046)

[Introduction, Definition of work, work done by constant force, Area under force-displacement curve]

1. A particle moves from position $\vec{r}_1 = 3\hat{i} + 2\hat{j} - 6\hat{k}$ to position $\vec{r}_2 = 14\hat{i} + 13\hat{j} + 9\hat{k}$ under the action of force $4\hat{i} + \hat{j} + 3\hat{k}$ N. The work done by this force will be

(A) 100 J

(B) 50 J

(A) 8×10^{-2} joules

(B) 16×10^{-2} joules

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