



**THE PSBB MILLENNIUM SCHOOL – GST & GERUGAMBAKKAM**  
**UNIT TEST II – 2024 – 2025**  
**PHYSICS (042)**  
**SET 1**

Class: XII

Time: 1 Hr.

Date : \_\_\_\_\_

Marks: 25

**General Instructions:**

Section A consists of 5 questions of 1 mark each.

Section B consists of 3 questions of 2 marks each.

Section C consists of 3 questions of 3 marks each.

Section D consists of 1 question of 5 mark.

You may use the following values of physical constant where ever necessary.

a)  $m_e = 9.1 \times 10^{-31} \text{ Kg}$

b)  $e = 1.6 \times 10^{-19} \text{ C}$

c)  $h = 6.63 \times 10^{-34} \text{ Js}$

e)  $\epsilon_0 = 8.854 \times 10^{-12} \text{ C}^2 \text{ N}^{-1} \text{ m}^{-1}$

**Section A****5 × 1 = 5****Multiple Choice Questions**

1. Light of wavelength  $5000^\circ\text{A}$  fall on a plane reflecting surface. What are the wave length and frequency of the reflected light?

a)  $5000^\circ\text{A}; 6 \times 10^{14} \text{ Hz}$

b)  $4000^\circ\text{A}; 6 \times 10^{14} \text{ Hz}$

c)  $5000^\circ\text{A}; 1.5 \times 10^7 \text{ Hz}$

d)  $4500^\circ\text{A}; 1.5 \times 10^7 \text{ Hz}$

2. Yellow light ( $\lambda = 6000^\circ\text{A}$ ) illuminates a single slit of width  $1 \times 10^{-4} \text{ m}$ . Calculate the distance between two dark lines on either side of the central maximum, when the diffraction pattern is viewed on a screen kept 1.5 m away from the slit.

a) 9 mm

b) 36 mm

c) 18 mm

d) none

3. Two nuclei have mass numbers in the ratio 1:8 what is the ratio of their nuclear radii?

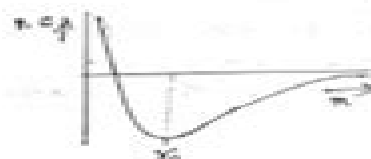
a)  $\frac{1}{3}$

b)  $\frac{1}{2}$

c)  $\frac{1}{4}$

d)  $\frac{1}{8}$

4. Choose the graph which shows the variation of potential energy of a pair of nucleones as a function of their separation ( $r$ ).  $r_0 = 1$  distance at which potential energy is minimum.



a)  $r_0 = 0.8 \text{ fm}$  ( $r < r_0$  – force repulsive,  $r > r_0$  – attractive force)

# Multiple Question For Physics

**Arshad Iqbal**



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