

PHYSICS

BOOKS - U-LIKE PHYSICS (HINGLISH)

MODEL TEST PAPER 1 (UNSOLVED)

Section A

1. A hollow metal sphere of radius 5cm is charged so that the potential on its surface is

10V. The potential at the centre of the sphere is A. 0 V B. 10 V C. same as at a point 5 cm away from the surface. D. same as at a point 25 cm away from the surface **Answer:** Vatch Video Solution

2. In hydrogen atom which quantity is integral multiple of $\frac{h}{2\pi}$

A. angular momentum

B. angular velocity

C. angular acceleration

D. momentum

Answer:



Watch Video Solution

3. Two monochromatic beam A and B of equal intensity I, hit a screen. The number of photons hitting the screen by beam A is twice that by beam B. Then what inference can you make about their frequencies?

A. 1:2

B. 2:1

C. 1:1

D. 1:3

Answer:

Section B

1. An $\alpha-$ particle and a proton of the same kinetic energy are in turn allowed to pass through a magnetic field \vec{B} , acting normal to the direction of motion of the praricles. Calculate the ratio of radii of the circular paths described by them.



