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Guess Paper – 2014 Class – XI Subject –Physics

Numerical problems

- 1. The density of air in 1.293 kg. m^{-a} . Express this value in c.g.s. units. (Ans. 0.001293 g cm^{-a})
- 2. Calculate the volume of a cube of side 1mm in m^{a} . (Ans. 10⁻⁹ m^{a})
- 3. The radius of a hydrogen atom is about 0.53 A. What is the atomic volume (in m^a) of a gram of hydrogen atom? (Ans. 3.76 x 10⁻⁸ m^a)
- The angular diameter of the sun from the earth is 15 minutes. If the distance of the earth from the sun is 1.48 x 10¹¹ m, calculate the diameter of the sun. (Ans. 6.46 x 10⁸ m)
- 5. The mass of a box is 2.3 kg. Two gold pieces of masses 20.15 g and 20.17 g are added to the box.
 - A) What is the total mass of the box? (Ans. 2.3 kg approx.)
 - B) What is the difference in the masses of the pieces to correct significant figures? (Ans. 0.02g)
- 6. The length and breadth of a sheet are measured by a meter scale as 5.8 cm and 3.5 cm. calculate the maximum error in the area of the sheet. (4.46 %)

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