

1. Model 1: Rutherford's Atomic Model

Model 2: Bohr's Atomic Model

a) How much is the mass of proton?

b) Define Maxwell electromagnetic theory of radiation.

c) Find the angular momentum of an electron when  $n=2$ . ( $h=6.626 \times 10^{-34} \text{ m}^2 \text{ kg s}^{-1}$ )

d) Between model-1 and model-2 which one is better? Analyse.

2. Two isotopes of Cuprum are  $^{63}_{\text{Cu}}$ ,  $^{65}_{\text{Cu}}$  and relative atomic mass is 63.5

a) What is called an atom?

b) Why the atomic number of Mg is 12?

c) Determine the percentage of the two isotopes of the stem.

d) Is the electronic configuration of the stem element exceptional from general rule? Analyze.