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# GCSE Chemistry

Atomic Structure Part -2

Assignment Questions

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Year 2021

## Atomic Structure :

Q1 : Explain Rutherford experiment to detect the nucleus.

Q2 : How many protons , neutrons and electrons following elements have :

a ) Silver - Atomic Number : 47 Mass Number :108

b) Uranium - Atomic number : 92 Mass Number : 235

c) Al<sup>3+</sup> ion Atomic number : 13 Mass Number : 27

d) P<sup>3-</sup> ion Atomic number : 15 Mass Number : 31

Q3 : What are isotopes ?

Q4: What are noble gases ? Give an example.

Q5 : Write down electronic structure of following :

a) Argon - Atomic number :18

b) Aluminium - Atomic number : 13

Q6 : There are two isotopes of Chlorine  $^{35}\text{Cl}_{17}$  and  $^{37}\text{Cl}_{17}$  . Describe the similarities and differences between the two isotopes of Chlorine.

Q7 : Explain why both isotopes of chlorine have the same chemical properties.