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ACADEMY**

# PYQs on Periodic Table, Ideas about Structure of Atom



Which one of the following is the correct electronic configuration of chlorine?

- (a) 2, 7, 8
- (b) 2, 8, 7
- (c) 2, 8, 8
- (d) 7, 8, 2

6. Which one of the following is the correct arrangement of metals in the decreasing order of their reactivity ?

- (a) Iron, Sodium, Silver, Copper
- (b) Silver, Copper, Iron, Sodium
- (c) Sodium, Copper, Silver, Iron
- (d) Sodium, Iron, Copper, Silver



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**Radon is**

- (a) an inert gas**
- (b) an artificial fibre**
- (c) an explosive**
- (d) a metal**





Which among the following is the correct arrangement of halogens in the increasing order of their oxidizing nature ?

- (a) F, Cl, Br, I
- (b) Cl, Br, F, I
- (c) Br, I, Cl, F
- (d) I, Br, Cl, F



The alkali metals have relatively low melting point. Which one of the following alkali metals is expected to have the highest melting point?

- (a) Li
- (b) Na
- (c) K
- (d) Rb

3. Identify the element having zero valency

- (a) Sulphur
- (b) Phosphorous
- (c) Lead
- (d) Radon





4. There are six electrons, six protons and six neutrons in an atom of an element. What is the atomic number of the element?

- (a) 6
- (b) 12
- (c) 18
- (d) 24





Rutherford's alpha-particle ( $\alpha$ ) scattering experiment was responsible for the discovery of which one of the following ?

- (a) Electron
- (b) Proton
- ✓ (c) Atomic Nucleus
- (d) Neutron



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What is the maximum number of electrons in the M-Shell ?

- (a) 6
- (b) 8
- ☒ (c) 18
- (d) 32



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6. Neutrons were discovered by

- (a) James Chadwick
- (b) Ernest Rutherford
- (c) J. J. Thomson
- (d) John Dalton





2. The number of maximum electrons in  
N Shell is

- (a) 2
- (b) 8
- (c) 18
- (d) 32





Which one of the following represents the correct order of electron releasing tendency of metals ?

- (a)  $\text{Zn} > \text{Cu} > \text{Ag}$
- (b)  $\text{Ag} > \text{Cu} > \text{Zn}$
- (c)  $\text{Cu} > \text{Zn} > \text{Ag}$
- (d)  $\text{Cu} > \text{Ag} > \text{Zn}$



. Which one of the following statements is correct?

- (a) Rutherford's alpha-particle scattering experiment led to the discovery of electron
- (b) J J Thomson suggested that the nucleus of an atom contains protons
- (c) The atomic number of an element is the same as the number of protons in the nucleus of its atom
- (d) The mass number of an atom is equal to the number of electrons in its shells



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. The symbol of the element 'Tungsten' is:

- (a) Ta
- (b) W
- (c) Tl
- (d) Tc





. The alkali metals have relatively low melting point. Which one of the following alkali metals is expected to have the highest melting point?

- (a) Li
- (b) Na
- (c) K
- (d) Rb





Which one of the following scientists mentioned that an electron in an atom could revolve in certain stable orbits without the emission of radiant energy ?

- (a) Ernest Rutherford
- (b) J.J. Thomson
- (c) Niels Bohr
- (d) Albert Einstein



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Which of the following sets of elements has the same valency ?

- (a) Na, Mg, Ca
- (b) Na, Mg, Al
- (c) Mg, Ca, K
- (d) Mg, Ca, Ba



. Which one of the following alkali metals has lowest melting point ?

- (a) Sodium
- (b) Potassium
- (c) Rubidium
- (d) Caesium





Rutherford's alpha-particle scattering experiment was responsible for the discovery of

- (a) Electron
- (b) Proton
- (c) Nucleus
- (d) Helium





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