

# CLASSIFICATION OF ELEMENTS, CHEMICAL BONDING, PERIODICITY IN PROPERTIES & PHYSICAL TRANSFORMATION BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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**Q1.** On moving horizontally across a period, the number of electrons in the outermost shell increases from ..... to ..... .

- a) 2, 18
  - b) 1, 8
  - c) 2, 8
  - d) 1, 18
- 

**Q2.** Which one of the following is most electropositive element?

- a) Calcium
  - b) Aluminium
  - c) Sodium
  - d) Silicon
- 

**Q3.** The element with atomic number 14 is hard and forms acidic oxide and a covalent halide. To which of the following categories does the element belong?

- a) Metalloid
  - b) Non-metal
  - c) Metal
  - d) Left-hand side element
- 

**Q4.** Which of the following is correct set of Dobereiner Triads?

- a) Be, Mg, Ca
- b) F, Cl, I
- c) Na, Si, Cl
- d) Li, Na, Be

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**Q5.** A woman desires to clean the surface of her gold ornaments by a chemical approach. For this she requires to use

- a) concentrated  $\text{H}_2\text{SO}_4$
- b) concentrated NaOH
- c) aqua-regia
- d) sodium thiosulphate solution

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**Q6.** The early attempt to classify elements as metals and nonmetals was made by

- a) Lothar Meyer
- b) Lavoisier
- c) Mendeleev
- d) Henry Moseley

---

**Q7.** Which is a metalloid?

- a) Sb
  - b) Bi
  - c) Pb
  - d) Zn
-

**Q8.** Amongst the following statements, which are correct?

- The ceaseless zig-zag motion of sol particles is due to the unbalanced bombardment of particles by the molecules of dispersion medium
- The intensity of zig-zag motion increases with the increase in the size of the particles
- The zig-zag motion of particles becomes intense at high temperature
- This motion has a stirring effect which does not permit the particles to settle

a) 1, 2 and 4

b) 1, 2 and 3

c) 1, 3 and 4

d) 2, 3 and 4

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**Q9.** A radioactive element X emits an  $\alpha$ -particle followed by 2  $\beta$ -particles in the successive steps as :

$X \xrightarrow{\alpha \text{ particle}} Y \xrightarrow{2 \beta \text{ particles}} Z$

Which of the following statement(s) is/are **correct**?

- Y and Z are isotopes
- The atomic number of X and Z are the same
- Y and Z are isobars
- The mass number of Y is greater than X

a) 1 and 4

b) 2 and 3

c) Only 1

d) Only 3

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**Q10.** Elements of which group form anions most readily?

a) Nitrogen family

b) Halogens

c) Oxygen family

d) Alkali metals

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**Q11.** Most of the explosions in mines occur due to the mixing of

- a) oxygen with acetylene
  - b) methane with air
  - c) hydrogen with oxygen
  - d) carbon dioxide with ethane
- 

**Q12.** The number of elements in the third period of periodic table is

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

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**Q13.** Which of the following is an actinide?

- a) Polonium
  - b) Promethium
  - c) Plutonium
  - d) Palladium
- 

**Q14.** Consider the following statements :

- 22gm. of  $\text{CO}_2$  consist of 1 mole.
- Number of molecules in 4 gm of oxygen is  $10^{22}$ .
- Mass of 1 mole of a substance is called its formula mass.

Which of these statements above are correct?

- a) 1 and 3
- b) 1 and 2
- c) 2 and 3

d) 1, 2 and 3

**Q15.** Pasteurization is related to

- a) Dehydration of milk
- b) Fermentation of milk
- c) Sterilization of milk
- d) Distillation of milk

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**Answers to the above questions :**

**Q1. Answer: (b)**

**Q2. Answer: (c)**

**Q3. Answer: (a)**

The given element belongs to carbon family.

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**Q4. Answer: (a)**

**Q5. Answer: (c)**

**Q6. Answer: (b)**

**Q7. Answer: (a)**

**Q8. Answer: (c)**

**Q9. Answer: (b)**

$\$ \_ZX^A (X) \_?_{-2He^4} \_?_{Z-2}X^{A-4} (Y) \_?_{-2\{-1\}e^0} \_ZX^{A-4} (Z) \$$

**Q10. Answer: (b)**

Halogens are the most electronegative elements.

i.e., they are likely to form anions most readily.

**Q11. Answer: (a)**

**Q12. Answer: (a)**

**Q13. Answer: (c)**

**Q14. Answer: (d)**

1 mole of  $\text{CO}_2 = 44\text{g}$  Mass of 1 mole of a substance is called molar mass.

**Q15. Answer: (c)**

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