

Quarterly Examination - 2017-2018

Chemistry

Time : 2 Hrs. + 15 min.

Std. : VII

F. M. : 80

SECTION A (40 Marks)

(Attempt all questions)

1. Fill in the blanks : (8)
- _____ foils are used for packing foodstuffs.
 - _____ is used as a solid lubricant.
 - Prisms and lenses are made of _____ glass.
 - _____ is the cheapest glass used for making window panes and bottles.
 - Glass of different colours is made by adding the oxides of different _____ to the glass melt.
 - _____ is a very strong material, used for constructing roofs, bridges and pillars.
 - At the centre of an atom, there is a nucleus made up of _____ and _____,
2. Write the chemical formula of the following compounds by using criss-cross method: (5)
- Calcium oxide
 - Silver chloride
 - Sodium Carbonate
 - Potassium Hydroxide
 - Ammonium Chloride
3. Write the chemical name of the following compounds : (5)
- CuO
 - ZnSO₄
 - Ca(NO₃)₂
 - Mg(HCO₃)₂
 - AlCl₃
4. Balance the following chemical equations : (4)
- $\text{MgO} \rightarrow \text{Mg} + \text{O}_2$
 - $\text{N}_2 + \text{H}_2 \rightarrow \text{NH}_3$
 - $\text{Hg} + \text{O}_2 \rightarrow \text{HgO}$
 - $\text{KCl} \rightarrow \text{K} + \text{Cl}_2$
5. Match the following and re-write them : (5)
- | A | B |
|---------------------|--|
| i. Bleaching Powder | i. NaHCO ₃ |
| ii. Quicklime | ii. CuSO ₄ · 5H ₂ O |
| iii. Baking Soda | iii. CaSO ₄ · 2H ₂ O |
| iv. Gypsum | iv. CaO |
| v. Blue vitriol | v. CaOCl ₂ |

6. Write which of the following statements are true and which are false. (5)
Rewrite the correct sentence.
- Proteins are essential for the growth of our muscles.
 - All non-metals are good conductors of electricity
 - All glasses are silicates of metals
 - Digestion is a long chain of chemical reaction.
 - The number of atoms contained in a molecule of an element is valency of that element.

7. Complete the following table : (8)

Element	Atomic No.	Mass No.	Protons	Electrons	Neutrons
i. 40 Ca 20	_____	_____	_____	_____	_____
ii. Mg ²⁺ _____	24	_____	10	_____	_____
iii. 23 Na 11	_____	_____	_____	11	_____
iv. _____	_____	12	6	_____	_____

SECTION B (40 Marks)

Attempt any four questions

8. i. What are isotopes? Write the symbols of three isotopes of Hydrogen. (3)
- ii. What are constituents of mortar? Write one application of mortar. (2)
- iii. Mention three uses of nitrogen. (3)
- iv. Which gland of human body gets affected by lack of iodine? Which salt is added to iodise common salt? (2)
9. i. Name the constituents of each of the following alloys : (4)
a. Brass b. Steel c. Bronze d. Duralumin
- ii. Between soda glass and potash glass which will you chose for making chemical apparatus? Give reason for your answer. (1+2)
- iii. What are the following called? (3)
- The combining capacity of an element with other elements.
 - The force that holds any two atoms to form a new entity.
 - A substance containing more than one element or compound in any proportion.

