

Sample Paper - 4

## ICSE Board Class VIII Chemistry Sample Paper - 4

Time: 2 hrs Total Marks: 75

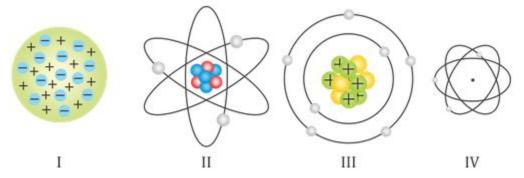
#### **General Instructions:**

- 1. All questions are compulsory.
- 2. Questions 1 to 15 carry one mark each.
- 3. Questions in 2A and 2B carry one mark each.
- 4. Questions in 3A and 3B carry one mark each.
- 5. Question 4A and 4B carry five marks each.
- 6. Questions in 5A and 5B carry one mark each.
- 7. Questions in 6A and 6B carry one mark each.
- 8. Questions 7A and 7B carry five marks each.

## **Question 1**

Choose the correct answer out of the four available choices given under each question. [15]

**1.** Which of the following pictures represent the Bohr's model of an atom?



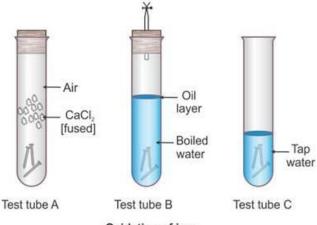
- (a) I
- (b) II
- (c) III
- (d) IV
- **2.** Sodium forms sodium cation by loss of?
  - (a) One electron
  - (b) Two electrons
  - (c) Three electrons
  - (d) Four electrons

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- 3. Hydrogen frees metals from their
  - (a) Sulphates
  - (b) Oxides
  - (c) Nitrates
  - (d) Chlorides
- **4.** Which of the following metals starts floating in water when allowed to react with it?
  - (a) Sodium
  - (b) Calcium
  - (c) Potassium
  - (d) Iron
- **5.** In which case will the iron nail not corrode?



Oxidation of iron

- (a) Test tube A
- (b) Test tube B
- (c) Test tube C
- (d) Both test tubes A and B
- **6.** Which of the following is not a deliquescent substance?
  - (a) Concentrated sulphuric acid
  - (b) Sugar
  - (c) Common salt
  - (d) Copper sulphate
- **7.** The process of sterilisation of water by the addition of chlorine which acts as a treatment against bacterial infection is
  - (a) Chlorination
  - (b) Precipitation
  - (c) Sedimentation
  - (d) Decantation

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- **8.** Which of the following is a solid fuel?
  - (a) Petrol
  - (b) Kerosene
  - (c) Coke
  - (d) Methanol
- 9. Allotropes have
  - (a) Similar chemical properties
  - (b) Similar physical properties
  - (c) Different chemical properties
  - (d) Similar physical and chemical properties
- **10.** Allotropes have \_\_\_\_\_ properties.
  - (a) similar chemical
  - (b) similar physical
  - (c) different chemical
  - (d) similar physical and chemical
- **11.**Substances used to determine whether a particular substance is an acid or a base are called
  - (a) Salts
  - (b) Indicators
  - (c) Reagents
  - (d) Catalysts
- **12.**What will be the colour change when phenolphthalein is added to ammonium hydroxide?
  - (a) Pink
  - (b) Orange
  - (c) Colourless
  - (d) Green
- **13.**Which is the correct balanced equation for the reaction between aluminium and hydrochloric acid?
  - (a) Al + 3HCl  $\rightarrow$  AlCl<sub>3</sub> + 3H
  - (b)  $2Al + 3HCl \rightarrow Al_2Cl_3 + 3H$
  - (c)  $2Al + 6HCl \rightarrow 2AlCl_3 + 3H_2$
  - (d) Al + 6HCl  $\rightarrow$  Al<sub>2</sub>Cl<sub>3</sub> + 3H<sub>2</sub>

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<b>14.</b> W	hat is the charge on an electron?
(a	) -1
(b	) +1
(c)	) -2
(d	) +2
<b>15.</b> Co	onversion of a solid to a liquid on heating is
(a	) Melting
(b	) Condensation
(c)	) Condensation
(d	) Freezing
Quest	tion 2
<b>(A)</b> St	ate the electronic configuration of the following atoms: [5]
1.	Atom 'A' (Atomic number = 12)
2.	Atom 'B' (Atomic number = 19)
3.	Atom 'C' (Atomic number = 7)
4.	Atom 'D' (Atomic number = 26)
5.	Atom 'E' (Atomic number = 10)
<b>(B)</b> Fil	ll in the blanks and rewrite the sentences: [5]
1.	When few drops of phenolphthalein are added to sodium hydroxide, the solution
	turns
2.	Separation of components of air such as liquid nitrogen and liquid oxygen is possible by
3.	The three states of matter are classified on the basis of differences in certain properties.
4.	A mixture which has different composition and properties in different parts of their
_	mass is called a mixture.
5.	
	hydrochloric acid.
Quest	tion 3
(A)St	ate whether the following statements are true or false.
Re	ewrite the false statement. [5]
1.	A compound is a pure substance composed only of one kind of element combined chemically in a fixed proportion by mass.
2.	. A chemical reaction in which two or more substances combine to form a single
	product is called a combination reaction or synthesis.
3.	. In the formation of ammonia from hydrogen and nitrogen iron is used as positive

4. Magnesium has atomic number 12 and atomic mass number 24.5. The insoluble solid settels down in a beaker is called as sediment.

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catalyst.



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## **(B)**Name the following:

- 1. Conversion of a solid to a liquid on heating
- 2. Conversion of a liquid to a vapour (or gas)
- 3. Conversion of a vapour (or gas) to a liquid
- 4. Conversion of a liquid to a solid
- 5. The outermost shell or orbit of an atom.

### **Question 4**

(A) Give distinguishing explanation between alpha rays, beta rays and gamma rays. [5]

[5]

**(B)** What is a metal reactivity series? What are its important features? [5]

### **Question 5**

- (A) Define the following: [5]
  - 1. Lamp black
  - 2. Sugar charcoal
  - 3. Chemical equation
  - 4. Orbit
  - 5. Bone charcoal
- **(B)** Match the name of the radical given in **Column A** with its formula given in **Column B**.[5]

Sr. No.	Column A	Column B
	(Name of the	
	radical)	(Formula)
1.	Chlorate	HCO <sub>3</sub> -
2.	Bicarbonate	MnO <sub>4</sub> -
3.	Bisulphate	Cu <sup>2+</sup>
4.	Permanganate	ClO <sub>3</sub> -
5.	Cupric	HSO <sub>4</sub> -

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(b) Water

1.	rite the formula of the given compounds: Acetic acid Sodium hydroxide	[5]
3. 4. 5.	Sulphuric acid Hydrochloric acid Ammonium hydroxide	
1. 2. 3. 4.	Sodium Chlorine Hydrogen Nitrogen	[5]
5.  Quest (A)  1. 2.	Oxygen  cion 7  Differentiate between compound and mixture.  What is atomicity? Give one example each of mono atomic and diatomic molecule	[3] e.[2]
(B) 1. (a)	Give the chemical equations for a reaction of potassium with  Oxygen	[2]

[3]

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2. Write the main features of Rutherford's atomic model.