



BOARD OF SECONDARY EDUCATION KARACHI

NEW MODEL QUESTION PAPER

S.S.C. (ANNUAL) EXAMINATIONS

CHEMISTRY (THEORY) PAPER-I

CLASS IX (SCIENCE GROUP)

Time: 3Hours

(Marks: 60)

SECTION "A" (20%)

MULTIPLE CHOICE QUESTIONS (MCQs) (12 Marks)

Q.1. 12 MCQs will be given from whole syllabus. Each carries 1 Mark.

SECTION "B" (40%)

(SHORT ANSWERS QUESTIONS) (24 marks)

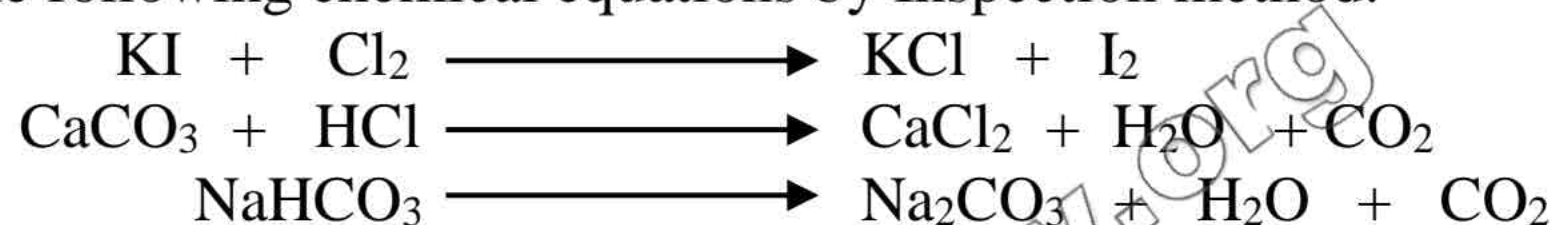
Note: Answer any **Eight (08)** questions from this section. Each carries 03 marks.

- 2- What are Isotopes? Identify the number of Protons and Neutrons present in the following Isotopes.



- 3- What is an Alloy? Write down the composition and one use of Brass and Bronze.

- 4- Balance the following chemical equations by Inspection method.



- 5- Design Primary & confirmative tests for qualitative analysis of Zn^{+2} (Cation).

- 6- Write down electronic configuration of the following elements.

(i) Nitrogen (ii) Magnesium (iii) Chlorine

- 7- A 600ml sample of gas is heated from 27°C to 77°C at constant pressure. What is its final volume?

- 8- Indicate one use of the following compounds with their chemical formulae.

Slaked Lime, Lime Stone, Soda ash

- 9- State Faraday's first and second laws of Electrolysis.

- 10- What are electrochemical reactions? Describe its types on the basis of transfer of electron.

- 11- Write down three characteristics of Ionic compounds.

- 12- Calculate the number of moles and number of molecules present in 20 grams of NaOH.

- 13- Justify:

i) Milk is a colloidal solution.

ii) Gases diffuse more rapidly.

SECTION- "C" (40%)

(DESCRIPTIVE ANSWER QUESTIONS) (24 Marks)

Note: Answer any **Four (04)** questions from this section. Each carries 06 marks.

- 14- State Boyle's Law and derive its mathematical expression $P_1V_1 = P_2V_2$.

- 15- Define Covalent bond and on the basis of number of bond pair classify it into three types with examples.

- 16- Discuss in detail the long form of periodic table.

- 17- What are Crystalline solids and Amorphous solids and Write any four differences between: Crystalline Solids & Amorphous Solids.

- 18- What is Corrosion? Describe any four methods for its prevention.

- 19- Describe discharge tube experiment with labeled diagram and What were the justification and conclusions of J.J. Thompson.