BOARD OF SECONDARY EDUCATION KARACHI

S.S.C (ANNUAL) EXAMINATION 2022

CHEMISTRY (THEORY)

CLASS IX (SCIENCE GROUP)

Time: 1.5 Hours (Marks: 40)

SECTION "A"

MULTIPLE CHOICE QUESTIONS (MCQs) **(15 Marks)**

NOTE: 15 MCQs will be given from the whole syllabus. Each carries <u>1 Mark</u>. (CODE: CH-101)

1.	Choose	the best answer.		
	i.	Butter is an example of a solution :		
		a) Gas-liquid	c)	Solid-liquid
		b) Gas-solid	d)	Liquid-solid
	ii.	Two fluorine atoms share one electron each in their oute	rmo	st shell to achieve the
		electronic configuration of :		
		a) Xe	c)	Kr
		b) Ar	d)	Ne
	iii.	The screen used in Rutherford atomic model is made up	of:	
		a) Aluminum foil	c)	Zinc sulphide
		b) Sodium sulphide	d)	Aluminum sulphide
	iv.	Noble metals like platinum, silver, gold are difficult to:		
		a) Reduce	c)	Both a and b
		b) Oxidize	d)	None
	v.	Calculate the number of moles of 20g of NaHCO ₃ :		
		a) 0.283	c)	0.823
		b) 0.238	d)	0.328
	vi.	Synthetic resins are used in places where:		
		a) Electric resistance is	c)	Adhesion is required
		required		Friction is required
		b) Water resistance is required	ŕ	•
	vii.	The isotope C-12 is present in abundance of :		
		a) 98.8%	c)	99.8%
		b) 98.9%	d)	89.9%
	viii.	The alloy of Ag-Cu is known as:		
		a) Solder	c)	Sterling silver
		b) Pewter	d)	Alnico
	ix.	Which one is an example of a true solution?		
		a) Solution of starch	c)	Ink in water
		b) solution of soap	d)	toothpaste
	х.	4 th and 5 th period in periodic table are known as:		
		a) Short period	c)	Normal period
		b) Long period	d)	Very long period
	xi.	$1 dm^3 =$		
		a) 1L	c)	1000ml
		b) 1000cm ³	d)	All of these

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xii. Who proposed the idea of an atom? a) Plato c) Aristotle b) Democritus d) Cavendish xiii. Which one of these has sharp melting point in solids: a) Plastic c) Rubber d) Diamond b) Glass xiv. One atmospheric pressure is equal to a) 10325Pa c) 101325 Pa b) 106075 Pa d) 10523 Pa There are ____ groups and ____ periods in the modern periodic table. XV. a) 6,7 c) 8,7 b) 7,6 d) 7,8

(Marks: 40)

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(Marks: 40)

SECTION "B"

(SHORT ANSWERS QUESTIONS)

(15 Marks)

NOTE: Answer any five (5) questions from this section. Each carries 3 Marks.

2.

Time: 1.5 Hours

- I. Explain discovery of neutron and write two properties of neutron.
- II. Write the difference of metals and non-metals.
- III. State boyles law. A container holds 39m³ of air at a temperature of 55C°. If the volume changed to 69m³, what will be the temperature of the gas?
- IV. What do you meant by Allotropy? Write names of any four allotropes of Carbon.
- V. Define diffusion and write factors affecting diffusion.
- VI. Define molarity. What is the mass of oxalic acid present in 0.1dm³ of 3.3 molar solution?
- VII. Define the following with trend in periodic table.
 - a) Shielding effect

c) Atomic radius

b) Electron affinity

SECTION "C"

(DESCRIPTIVE ANSWER QUESTIONS)

(10 Marks)

NOTE: Answer any one (1) question from this section. Each part carries 5 Marks.

3.

- a) Define solubility. Explain its three factors briefly.
- b) State first and second law of faraday. Give construction and working of dry cell with well labeled diagram.

4.

- a) Briefly explain the Rutherford experiment.
- b) Define covalent and its types with examples.