

SARDAR KAURAY KHAN PUBLIC HIGHER SECONDARY SCHOOL MUZAFFAR GARH

Name Class 9th..... Date: –

Chemistry: - 2nd Half

Q 1. MCQs Select the correct answers

Time: 15 min... 12

- Concentration of table salt up to how much %age are required to killed most of the species of unwanted bacteria?
(a) 5% (b) 10% (c) 15% (d)20%
- 785cm³ of a gas was enclosed in a container under a pressure of 600 torr. If volume is reduced to 350 cm³, what will be the pressure? (a) 1435.7 (b)1545.7 (c) 1345.7 torr (d) 1445.7
- Which one gas diffuses faster? (a)F₂ (b) Cl₂ (c) O₂ (d)N₂
- Soda water (fizzy drinks) is an example of solution of (a) liquid in gas (b) gas in solid (c)gas in liquid(d) gas in gas
- Which one solution contains more solvent? (a)2.0M (b)1.0M (c)0.50M (d)0.25M
- Tyndall effect is not shown by (a) ink (b) milk (c)jelly (d) a drop of ink mixed in water
- The oxidation number Chlorine in potassium chlorate is (a)+3 (b)+5 (c)-3 (d)-1
- In the redox reaction between Al and HCl, the reducing agent is(a)Zn (b)HC (c)H₂ (d)Al
- A spontaneous redox reaction takes place in(a)electrolytic cell (b)Nelson's cell (c)Galvanic cell(d)Down's cell
- White gold an alloy of gold with palladium, nickel or (a)copper (b) aluminium (c) zinc (d)silver
- Which one nonmetal has metallic luster? (a)diamond (b)graphite (c) Sulphur (d)iodine
- Calcium has the valence shell configuration (a)3s¹ (b)4s¹ (c) 3s² (d)4s²

Subjective:

Time: 1hr: 45min

Total Marks = 48

SECTION – I

Q 2. Answer briefly any five parts

5x2 = 10

- i. What is the difference between valency and oxidation state
- ii. What do you mean by v/v %?
- iii. Differentiate between strong and weak electrolyte
- iv. Calculate oxidation state of N in Sr(NO₃)₂
- v. Why O₂ is necessary for rusting?
- vi. What do you mean by like dissolves like?
- vii. What is atmospheric pressure? Give its SI units
- viii. Calculate oxidation state of oxygen in OF₂ & KO₂.

Q 3. Answer briefly any five parts

5x2 = 10

- i. What are the noble metals?
- ii. Why ionization energy of Na is less than Mg?
- iii. Why is HF a weak acid
- iv. Why gold is used for making jewelry?
- v. Define reduction in terms of electron. Give an example
- vi. What is an oxidizing agent?
- vii. What are halogens?
- viii. Give reaction of chlorine with an alkali in cold state.

Q 4. Answer briefly any five parts

5x2 = 10

- i. Why does not the suspension form a homogenous solution?
- ii. Explain diffusion in liquids with example.
- iii. Define term allotropy with example.
- iv. How boiling point depends upon external pressure?
- v. Why densities of gases are lower than that of liquids?
- vi. Write down the formula for dilution of a solution.
- vii. What are amorphous solids?
- viii. Write down the uses of Magnesium?

SECTION – II

Note: Attempt any two questions

9x2 = 18

- Q 5.** (a) State Charles's Law. Discuss its verification. 4
- (b) Give the five characteristics of true solution. 5
- Q 6.** (a) Describe the commercial manufacturing of Sodium 4
- (b) Describe the unsaturated, saturated and supersaturated solutions. 5
- Q 7.** (a) Discuss the process of Rusting of iron 4
- (b) What is vapor pressure? Describe factors affecting vapor pressure 5