

VILLA THERESA HIGH SCHOOL, MUMBAI

Std. 8
03/03/2021

Final Exam–March 2021
Subject: Chemistry

Time: 1 hour
Marks: 40

QI) a) Name the gas released in the following cases: (4)

- i) Burning wood.
- ii) Magnesium sulphite reacts with dil. HCl.
- iii) Nitrogen reacts with hydrogen.
- iv) Zinc with water.

b) Complete the table given below: (5)

Radical	Name
O_2^{-2}	
	Silicate
Cu^{2+}	
	Chromium
ZnO_2^{-2}	

c) Give the molecular formula: (3)

- i) Ammonium phosphite ii) Calcium sulphate iii) Stannic chloride

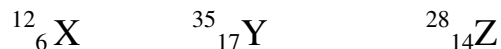
d) Name the following: (5)

- i) A chemical reaction taking place in the presence of light.
- ii) A compound formed when phosphorus combines with chlorine.
- iii) The anion in the gas which smells of rotten eggs.
- iv) The black salt of Copper.
- v) The term used for the number of protons in the nucleus of an atom.

QII) a) Give the observation for: (5)

- i) Copper sulphate reacts with hydrogen sulphide gas.
- ii) Zinc carbonate is heated.
- iii) Iodine is heated.
- iv) Calcium nitrate is heated.
- v) Ferrous sulphate solution is added to aq. Sodium Hydroxide.

b) Observe and answer the following questions:



- i) State the type of element that the above atoms represent. (3)
- ii) Combine the atoms X and Y. Give its molecular formula. (1)
- iii) Which of the atoms would readily form an anion? Draw the anion. (2)
- iv) Give the isotopic form of X. (1)
- v) State the valence electrons and valency of the element after Z. (1)
- vi) Which is the shell of an atom having the lowest amount of energy? (1)

QIII) a) Give balanced equations for: (4)

- i) Decomposition of sodium nitrate.
- ii) Reaction of Aluminium in water.
- iii) Formation of nitric oxide.
- iv) Production of sulphurous acid.

b) Complete and balance the following: (5)

- i) _____ + _____ \rightarrow AgCl + NaNO₃
- ii) NH₄OH + H₂SO₄ \rightarrow _____ + _____
- iii) _____ + H₂O \rightarrow NaOH + _____
- iv) _____ + CuSO₄ \rightarrow MgSO₄ + _____
- v) HgNO₃ \rightarrow _____ + _____ + _____
