

SAMPLE QUESTION PAPER

CHEMISTRY

CLASS XII

Design of Question paper

Time: 3 hrs.

Maximum Marks:70

A. Weightage to different forms of questions

S. No.	Type of question	Marks per Question	Total number of Questions	Total marks
1	VSA	1	8	8
2	SA I	2	10	20
3	SA II/Value Based Question	3	9	27
4	LA	5	3	15
Total			30	70

B. Typology of Questions

S. No.	Typology	Weightage in marks	Weightage in percentage
1	Knowledge Based	14	20%
2	Conceptual Understanding	21	30%
3	Inferential Type	14	20%
4	Reasoning Based	11	15%
5	Skill Based	10	15%
	Total	70	100%

21 (a) Acidic flux is SiO_2 1/2

Basic flux is CaO 1/2

(b)

(i) Cu_2O undergoes self reduction to form blister copper as



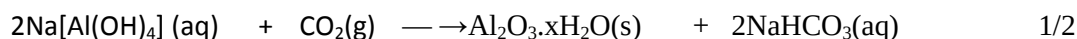
OR

(a) Cryolite reduces melting point of alumina . 1

(b) Concentration of ore is carried out by digesting the powdered ore with a concentrated solution of NaOH at 473-523 K and 35 -36 bar pressure. Al_2O_3 is leached out as sodium meta aluminate and SiO_2 as sodium silicate leaving behind impurities.

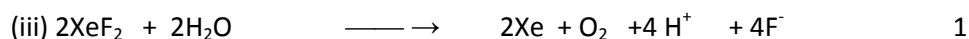
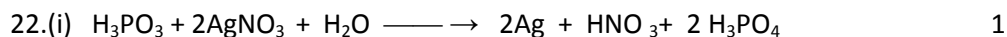
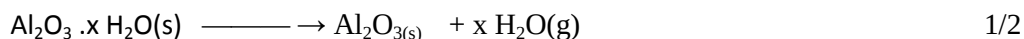


The resulting solution is filtered, cooled and neutralised by passing CO_2 gas through it. Then hydrated Al_2O_3 gets precipitated leaving sodium silicate in the solution.

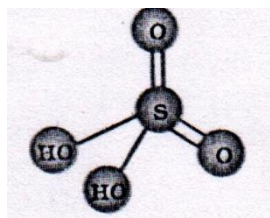


Sodium silicates remain in the solution and hydrated alumina is filtered , washed, dried and heated to get pure alumina (Al_2O_3).

1470K



23(i)



1

(ii) Since the formation of ozone from oxygen is endothermic reaction, sunlight or electric discharge prevents its decomposition.

(iii) Bleaching by sulphur dioxide is temporary because of its reducing nature. 1

24 (i) Amylose is a long unbranched chain polymer of α -D(+)-glucose. 1/2

Amylopectin is a branched chain polymer of α -D-glucose. 1/2

(ii) Globular protein and its shape is spherical. $\frac{1}{2} + 1/2$

(iii) Liver and adipose tissue. $\frac{1}{2} + 1/2$

25. (i) Antiseptics are the chemicals applied to the living tissues either to kill or prevent the growth of microorganisms .e.g dettol. $\frac{1}{2} + 1/2$

(ii) Antioxidants are the compounds which retard the action of oxygen on food and reduces its rate of decomposition by oxidation.e.g BHA $\frac{1}{2} + 1/2$