Padasalai.Net's Quarterly Exam 2022 – Model Question Paper

Std XII Chemistry		Max.Mark:70 Time: 3:00
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I.Choose the correct answer		15 X 1 = 15
(a) Smelting (b) Calcination	om tinstone by the process of(c) Roasting (d) Electromagneti on minothermic process is	
5	aO (c) Al ₂ O ₃ + Mg (d) Al	2O3 + BaO2
3.An aqueous solution of borax is	. , , , , , , , , , , , , , , , , , , ,	
(a) neutral (b) acidic	(c) basic (d) amphote	ric
4.Syn gas is		
(a) CO + N_2 (b) CO + H_2	(c) $CO_2 + H_2$ (d) $CO_2 + N_2$	
5.The correct order of the therma (a) HI > HBr > HCl > HF (c) HCl > HF > HBr > HI	al stability of hydrogen halide is (b) HF > HCl > HBr > HI (d) HI > HCl > HF > HBr	
6.Sulphuric acid can be manufac	stured by	
(a) Ostwald's process (b) (c) Deacon's process (d)	Lead chamber process Haher's process	
	now the highest oxidation state of +7 are	
	m,Th c)U,Th,Md d) Es,N	No I r
	gements octahedral voids are formed?	10,2
(i) hcp (ii) bcc (iii) simple cubic (iii		
a) (i), (ii) b) (i), (iv)		
	2 hours and 75% completed in 4 hours.	Then the order of the
reaction is	2 Hours and Foxogampiotog in Thouse	
(a) first order (b) zero order	(c) second order (d) third	order
10. Which one of the following is		
	ol s ⁻¹ (c) mol L ⁻¹ s ⁻¹ (d) m	
11 . The aqueous solutions of socrespectively	dium formate, anilinium chloride and pota	ssium cyanide are
(a) acidic, acidic, basic	(b) basic, acidic, basic	
(c) basic, neutral, basic	(d) none of these	
12. Hydroboration of an alkene for		
a) Saytzeff's rule	b) Markownikoff's rule	
c) anti Markownikoff's rule	d) Popoff's rule	
13.Carbolic acid is	id (a) hanzaia aaid	(d) phonylogotic coic
(a) Phenol (b) Picric act		(d) phenylacetic acid
14. Formaldehyde reacts with an a) aldimine b) diacetone ar ammonia	nine c) hexamethylene tetramine d)	formaldehyde
15. Which is used in medicine as	s an urinary antiseptic?	
a) formic acid b) acetic acid	·	tyl chloride
Il Answer any six questions	(Question no 24 is compulsory)	6 X 2 = 12
	ncentrated by froth floatation method? Given	
such ores.	The state of the s	
17.What is phosgene?		

18. What is the inert pair effect?

- 19.Calculate the number of atoms in a fcc unit cell.
- 20. Write Arrhenius equation and explains the terms involved
- 21. What are lewis acids and bases? Give two example for each.
- 22. Explain common ion effect with an example.
- 23. Write briefly about halofom reaction
- 24. Explain Kolbe's reaction

III. Answer any six questions. (Question no33 is compulsory) 6 X 3 = 18

- 25. Give the limitations of Ellingham diagram.
- 26. Give the structure of CO and CO2.
- 27. Write a short notes on Rhombic sulphur?
- 28. Define average rate and instantaneous rate.
- 29. Differentiate crystalline Solids and Amorphous solids
- 30. Define solubility product.
 - 31. What is Benzoin Condensation?
 - 32. What happens when ethylene glycol is reacted with Pl₃?
 - 33. Convert phenol into (i) 1, 4 benzoquionone (ii) cyclo hexanol

IV. Answer all the question

5 X 5 = 25

34.a. Explain froth floatation process.

Or

- b)Describe the structure of diborane.
- 35.a.i. Bleaching action of chlorine is permanent. Justify this statement.
 - ii. What is lanthanide contraction and what are the effects of lanthanide contraction?

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- b. Write the preparation of potassium dichromate?
- 36.a.i. Calculate the packing efficiency in fcc unit cell?
 - ii. What are ionic solids? Give their characteristics.

Or

- b)Explain the rate-determining step with an example.
- 37.a. Derive an expression for Ostwald's dilution law.

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- b. Derive Henderson-Hasselbalch equation.
- 38.a.i. Write about the oxidation of ethylene glycol
 - ii. Write a note on Swern Oxidation.

Or

- b. i. What is Urotropine? How is it prepared?
 - ii. Explain the mechanism of aldol condensation

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