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Time: 1.30 Hrs.

First Mid-Term Test - 2024 CHEMISTRY

Companied Called

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Register No. 12115

Marks: 50

Choose the correct answer.

Electrochemical process is used to extract

a) Fe b) Pb c) Na d) Ag

▶2. The metal oxide which cannot be reduced to metal by carbon is made on the

a) PbO b) Al₂O₃ c) ZnO d) FeO wows from the entertainment of the control of t

13. The nature of potash alum in aqueous solution is

a) basic b) acidic c) neutral d) amphoteric

14. The basic structural unit of silicate is

a) $(SiO_3)^{2-}$ b) $(SiO_4)^{2-}$ c) $(SiO)^{2-}$ d) $(SiO_4)^{4-}$

1.5. The basicity of pyrophosphorous acid $(H_4P_2O_5$ is)

a) 4 b) 2 c) 3 d) 5

16. Solid CO, is an example of

a) Covalent solid b) metallic solid c) molecular solid d) lonic solid

7. Example for non-stoichiometric defect is..........

a) NaCl b) AgBr c) FeO d) Cdcl2 to Agcl. solices a trace control destruction of the control of t

\8. The addition of a catalyst during a chemical reaction alter which of the following quantities?

a) Enthalpy b) Activation energy c) Entropy d) Internal energy

(9. After 2 hrs a radioactive substance becomes (1/16)th of original amount, then the half life (in min.) is.....

a) 60 min b) 120 min c) 30 min d) 15 min

10. Carbolic acid is.....

a) phenol b) picric acid c) benzoic acid d) phenyl acetic acid

II. Answer any five questions.

 $5 \times 2 = 10$

59(3)

11. Differentiate minerals and ore.

12. Write any two uses of zinc.

13. How will you convert boric acid to boron nitride?

14. What is inert pair effect?

15. What is covalent solids?

16. Give any two examples for first order reaction.

17. How will you prepare 1, 4 dioxane from glycol.

III. Answer any five questions.

 $5 \times 3 = 15$

18. Describe a method for refining nickel.

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19	Give one example for each of the followings.	F
	i) icosogens	
194 .	** ii) tetrogens	
	iii) prictogen	
20	What are interhalogen compounds? Give an example.	
21	. Differentiate tetrahedral and octahedral voids.	
_22	Write three characteristics of ionic crystals. Write Arrhenius equation and explain the terms involved. $k = n_0 \left(\frac{\epsilon_{\alpha}}{\epsilon_{\tau}} \right)$	
28	€ Write Arrhenius equation and explain the terms involved.	
24.	. How is phenol prepared from chlorobenzene in Dow's process.	
IV.	Answer all the questions.	5 = 15
25.	a) Explain zone refining process	5
•	(OR)	
	b) (i) Write a note on Fisher tropsch synthesis	3
	ji) Preparation of bleaching powder.	. 2
26 .	a) Write a note on	
	(i) Schottky defect	21/2
	(ii) Frenkel defect	21/2
	(OR)	-
	b) Derive the rate constant for first order eaction	5
27.		5
	(OR)	2
. · ·	b) Write a note on followings and to the state of the sta	
	(i) Schotten - Baumann reaction	21/2
	(ii) Phthalein reaction	21/2

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