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SAKTHI MATRIC HR. SEC. SCHOOL.KANIYAMOOR

CLASS : XII E/M MODEL ANNUAL EXAM-8

H

Time: 3.00HRS Marks: 70

SUBJECT: Chemistry		Marks: 70		
CHOOSE THE CORRECT ANSWER:		15*1=15		
1.Flux is a substance which is used to convert				
a)Mineral into silicate	b) Infusible impurities	to soluble impurities		
c) Soluble impurities to infusible impurities	d) All of these			
2. The geometry at which carbon atom in diam	ond are bonded to each other is			
a) Octahedral b) hexagonal	c) Tetrahedral	d) none of these		
3.Permanganate ion changes toin	acidic medium			
a)MnO ₄ ²⁻ b) MnO ₂	c) Mn ³⁺	d) Mn ²⁺		
4. The only metal which crystallizes in simple	cubic pattern is			
a) Pd b) Pt c)Po	d)Pb			
5.0xidation state of Iron and the charge on the	ligand NO in [Fe(H ₂ O) ₅ NO]SO ₄ are	9		
a) +2 and 0 respectively	b) +3 and 0 re	spectively		
c) +1 and +1 respectively	d) +3 and +1 r	espectively		
6. If the initial concentration of the reactant is	doubled, the time for half reactio	n is also doubled. Then		
theorder of the reaction is				
a) Fraction b) one	c) Zero	d) none		
7.Conjugate base for Bronsted acids H ₂ O and H		aj none		
a) OH- and H ₂ FH+ respectively	b)H ₃ O+ and F-	respectively		
c) OH- and F-respectively		d)H ₃ O+ and H ₂ F+ respectively		
8.Faradays constant is defined as				
a)charge carried by 1 electron	b) charge carried by	76.22×10^{10} electrons.		
c) charge required to deposit one mole of sul		one mole of electrons		
9.HO2 CH ₂ 2CH ₂ – OH on heating with periodic				
a)methanoic acid b) Glyoxal	c) CO ₂	d) methanal		
10. The oxidizing power of oxo acids of haloge				
	b) HOX > HXO ₄ > HXO ₃ > HXO			
c) HXO ₄ > HXO ₃ >HXO ₂ >HOX	c) HXO ₃ > HXO ₄ >HXO ₂ >HO			
11.During electrolysis of molten sodium chlor				
gasusing a current of 3A is	, 1			
a)55 minutes b) 220 minutes	c) 107.2 minutes	d) 330 minutes		
12. Assertion: 2,2 - dimethyl propanoic acid do	oes not give HVZ reaction.	•		
Reason: 2 – 2, dimethyl propanoic acid doe	_			
a)if both assertion and reason are true and	reason is the correct explanation of	of assertion.		
b)if both assertion and reason are true but	•			
c)assertion is true but reason is false	_	on and reason are false.		
13. The secondary structure of a protein refers				
a)fixed configuration of the polypeptide back	c interaction			
c) α-helical backbone.		d) sequence of α-amino acids		
14. Terylene is an example of	•			
a)polyamide b) polythene	c) polysaccharide	d) polyester		
15. Which one of the following is an example f				
a)lodination of acetone	b)Decomposition of hydrogen p	eroxide		
c)Decomposition of HI on gold	d)Oxidation of KI by potassium per sulphate			
,	,	1		

II ANSWER ANY SIX QUESTIONS AND QUESTION NO: 24 IS COMPULSORY

6*2=12

16.Difference between minerals and ores.

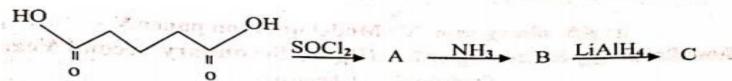
17.Out of Lu(OH)₃ and La(OH)₃ which is more basic?

18. What is crystal field splitting energy?

19. Give 3 ex for zero order?

20.A copper electrode is dipped in 0.1m Copper sulphate solution at 25-degree C. Calculate the electrode potential of copper. [Given: $E^0Cu^{2+}/Cu = 0.34V$].

- 21. What is Metamerism? Give an example?
- 22. Name the vitamins whose deficiency cause i)rickets ii)scurvy
- 23. How do antiseptics differ from disinfectants?
- 24. Identify A, B and C



III ANSWER ANY SIX QUESTIONS AND QUESTION NO: 33 IS COMPULSORY

- 25. How will you identify borate radical.
- 26. Chalcogens belongs to P-block give reason.
- 27Define isotropy and Anisotropy?
- 28. Write the relationship between ionic product and solubility product(Ksp)
- 29. Write the general characteristics of catalyst
- 30. What is Urotropine? How is it prepared?
- 31.Identify A, B and C

C6H5NO2 -

 $\xrightarrow{Fe/Hcl}$

HNO2

C6H5OH

н **Э** С

- 32. Explain intermediate compound formation theory.
- 33. An organic compound (A)of molecular formula is C_7H_6O on treatment with 50%NaOH gives B (C_7H_8O) and ($C_7H_5O_2Na$) C. Compound C react with soda lime(NaOH/CaO) to gives D ($C_7H_6O_2$) Identify A, B, C and D with necessary reaction.

IV ANSWER ALL THE QUESTIONS:

5*5=25

34. a) Explain zone refining process?.(5)

(OR)

- b) Difference between Diamond, Graphite.(2)
- c) Write note about catenation. Write any two condition for catenation? (3)
- 35. a) Describe the variable oxidation state of 3d series elements.(3)
 - b) Transition metals show high melting point why?(2)

(OR)

- c) Write the postulates of VBT.(5)
- 36. a) Difference between crystalline and amorphous solids.(3)
 - b) What is F centre (2)

(OR)

- c) Discuss the lowery-Bronsted concept of acid & base. (5)
- 37. a) Describe the some features of catalysis by zeolites.(5)

(OR)

- c) Explain the mechanism of Cannizaro reaction.(3)
- d) Explain the Reducing nature of Formic acid.(2)
- 38.a) Write a note on Denaturation of proteins?(2)
 - b) Outline the classification of carbohydrates?(3)

(OR)

How the following conversions are effected?(5)

- i) nitrobenzene → 1,3,5-trinitro benzene
- ii) nitrobenzene → N-phenyl hydroxylamine
- iii) nitrobenzene → aniline
- iv) nitrobenzene → hydro benzene
- v) nitrobenzene → azoxybenzene

"KEEP YOUR FACE TO THE SUNSHINE AND YOU CANNOT SEE A SHADOW".

R.RAMALINGAM,M.SC,M.Ed,M.Phil PG.ASST.IN.CHEMISTRY SAKTHI MATRIC HR SEC SCHOOL KANIYAMOOR.

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