DISTRIBUTION OF MARKS

CLASS - +2

SUBJECT - CHEMISTRY

Time: 3 hours

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No.		1.	2.	3.	4		5	
S. No. Unit		Electro Chemistry	Chemical Kinetics	Surface Chemistry	D and F-block	Elements	Co-oridnation	Compounds
1 mark	Ques.	2	2	2	4		ω	
2 mark	Ques.	2	2	_	1		1	
3 mark	Ques.	_	_	1	_		1	
Total	Marks	6	6	5	6		œ	

PAPER TERM - 2

CLASS - +2

SUBJECT - CHEMISTRY

Time: 3 hours

M.M.: 50

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Instructions:

- (i) All question are compulsory
- While answering your questions, you must no. as appearing in your question paper. indicate on your answer sheet same question
- (iii) Internal choices are given in same questions.
- (iv) Question No. 1-20 carry 1 mark each, questions 21-29 is of 2 marks, question 30-33 are of 3 marks.
- 1. The units of conductivity are:

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Aldehydes, Ketones

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& Carboxylic Acids

Chemistry in

Amines

Everyday life

20

50

- (a) ohm⁻¹
- (b) ohm⁻¹cm⁻¹

- (c) $ohm^{-2}cm^2 equiv^{-1}$ (d) $ohm^{-1}cm^2$
- 2. One faraday is equal to
- 3. Units of specific reaction rate for 2nd order reaction
- 4. Rate of reaction depends upon
- Which of the following are positively charged sols?
- (a) $Fe(OH)_3$
- (b) Sb_3S_3
- (c) TiO_2
- (d) Silver Sol.

(b) Define optical isomerism? Give one example.			
		Na (b) Ca	(a) Na
(a) What is meant by chelate effect?	24.	Which element belongs to d-block elements?	15. Wh
		(c) $X/m a p^0$ (d) all of the above	(c)
Which of two is paramagnetic V (iv) or V(V) and		(a) $X/m a p^1$ (b) $X/m a p^{1/6}$	(a)
Or		of the following is correct?	of t
(b) Define transition elements?		According to freundlich adsorbtion isotherm, which	14. Acc
ions?		NO (d) NO ₂	(c) NO
(a) Why transition elements formed coloured	23.	CO (b) CO ₂	(a)
diagram?		HCOOH reacts with $ConCH_2SO_4$ to produce.	13. HC
Explain standard hydrogen electrode with	22.		
relation?		Medicines used in treatment of allergy are called	12. Me
21. What is Nerst equation? Write mathematical	21.	Define canthanoid contraction?	11. Def
(c) $[Ni(H_2O)_6]^{2+}$ (d) $[Cu(NH_3)_4]^{2+}$		<u>\</u>	_
(a) $[Ni(CO)_4]$ (b) $[NiCl_4]^{2-}$		(0	
Which complex has square planar structure?	20.	$C_6H_8NH_2 + CHCl_3 \otimes \dots 10.$ $\uparrow \downarrow \uparrow $	9. C ₆ H
IUPAC name of oxalic acid is	19.	$\frac{N_2Cl_2}{l}$	
is known as		The IUPAC name of K₄[Ni(CN)₄] is	8. The
Freshly prepared ammonical silver nitrate solution	18.	Lanthanoids?	
17. NO ₂ is called	17.	Write the general electronic configuration of	7. Wr
(c) 1 (d) 3		(c) Zn^{2+} (d) Cu^{2+}	(c)
(a) 0 (b) 2		Fe^{2+} (b) Cr^{2+}	(a)
The magnetic moment of $[Ni(CO)_4]$ is	16.	6. Which of the following is dia magnetic?	6. Wh

<u>(C</u>

Cu

<u>a</u>

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Explain the geometry and magnetic behaviour of $[Ni(CO)_4]$

- 25. (a) What is order of reaction? Explain.
- (b) What is rate law?
- 26. First order of reaction has specific rate of 10⁻³s⁻¹. How much time will it take for 10g of reactant to reduce to 5g?
- 7. (a) Write IUPAC name of

CH₃CH₂NH CH₃

(b) Explain Mendius reaction?

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- (a) Describe Gattermann reaction?
- (b) Complete equations :-

$$\begin{array}{ccc}
O \\
\parallel \\
R-C-NH_2 & \xrightarrow{LiAlH_4} & \dots \\
H_2O & & \dots
\end{array}$$

- (ii) $C_6H_5NH_2 + Br_2$ ®
- 28. (a) What is tincture of iodine? What is its uses?
- (b) What are antacids? Give examples.
- 29. (a) Why ethylamine is more basic than ammonia?



- (a) Write short note on Sandmeyer's reaction?
- (b) Why do amines behave as nucleophiles?
- 30. (a) Explain geometry and magnetic behaviour of $[Ni(CN)_4]^{2-}$ on basis of VBT?
- (b) $[\text{Ti}(\text{H}_2\text{O})_6]^{3+}$ is coloured while $[\text{Sc}(\text{H}_2\text{O})_6]^{3+}$ is colourless. Explain?
- 31. (a) Write four differences between absorbtion and adsorption?
- (b) Name the zeolite catalyst which convert alcohol to gasolien (petrol)?
- 32. (a) Discuss cross aldol condensation?
- (b) Why do aldehydes and ketones under goes nucleophilic addition reaction? Give one example.
- 33. (a) What is tollen's reagent?
- (b) Why formic acid is stronger than acetic acid?
- (c) Discuss Hell-volhard zelinsky reaction?

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- (a) What is formalin?
- (b) Write short note on aldol condensation?
- (c) What is catalytic dehydrogenation of alcohols?