CLASS - +2

SUBJECT - CHEMISTRY

Time: 3 hours M.M.: 50

S. No.	Unit	1 mark	2 mark	3 mark	Total
		Ques.	Ques.	Ques.	Marks
1.	Electro Chemistry	2	2	_	6
2.	Chemical Kinetics	2	2	_	6
3.	Surface Chemistry	2	_	1	5
4.	D and F-block	4	1	_	6
	Elements				
5.	Co-oridnation	3	1	1	8
	Compounds				
6.	Aldehydes, Ketones	3	-	2	9
	& Carboxylic Acids				
7.	Amines	3	2	-\	7
8.	Chemistry in	1	1	_	3
	Everyday life				
		20	9	4	50

PAPER TERM - 2 CLASS - +2

SUBJECT - CHEMISTRY

Time	e: 3 hours		M.M. : 50		
Insti	ructions :				
(i)	All question are con	mpulsoi	ту		
(ii)	While answering your questions, you must				
	indicate on your answer sheet same question				
	no. as appearing in	your qu	estion paper.		
(iii)	Internal choices are	given i	n 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 conducti	vity are	:		
	(a) ohm ⁻¹	(b)	ohm ⁻¹ cm ⁻¹		
	(c) ohm ⁻² cm ² equiv	⁻¹ (d)	ohm ⁻¹ cm ²		
2.	One fa <mark>raday is</mark> equal	to			
3.	Units of specific reaction rate for 2nd order reaction				
	is				
4.	Rate of reaction depends upon				
5.	Which of the following are positively charged sols?				
	(a) Fe(OH) ₃	(b)	Sb_3S_3		
	(c) TiO ₂	(d)	Silver Sol.		

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6.	Whi	ich of the followir	ng is dia r	magnetic?	
	(a)	Fe ²⁺	(b)	Cr ²⁺	
	(c)	Zn ²⁺	(d)	Cu ²⁺	
7.		te the general thanoids?	electroni	c configuration	С
8.	The	IUPAC name of	K ₄ [Ni(CN) ₄] is	
				N_2CI_2	
9.	C ₆ H	I _S NH ₂ +CHCl ₃ ®		10. + H ₂	.(
	Δ	<u> </u>			
11.	Def	ine canthanoid c	ontraction	ነ?	
12.	Med	dicines used in tr	eatment (of allergy <mark>are calle</mark>	9
13.	HC	OOH reacts with	ConCH ₂ S	SO ₄ to pro <mark>duce.</mark>	
	(a)	CO	(b)	CO ₂	
	(c)	NO	(d)	NO ₂	
14.	Acc	ording to freundli	ch adsorb	tion isotherm, <mark>whi</mark> c	2
	of th	ne following is co	rrect?		
	(a)	X/m a p ¹	(b)	$X/m a p^{1/6}$	
	(c)	X/m a p ⁰	(d)	all of the above	
15.	5. Which element belongs to d-block elements?				
	(a)	Na	(b)	Ca	
	(c)	Cu	(d)	Ar	

16.	. The magnetic moment of [Ni(CO) ₄] is			CO) ₄] is
	(a)	0	(b)	2
	(c)	1	(d)	3
17.	NO	t is called		
18.	Freshly prepared ammonical silver nitrate solution			
	is kr	nown as		
19.	IUP.	AC name of oxalic ac	id is	
20.	Which complex has square planar structure?			
	(a)	[Ni(CO) ₄]	(b)	[NiCl ₄] ²⁻
	(c)	[Ni(H ₂ O) ₆] ²⁺	(d)	$[Cu(NH_3)_4]^{2+}$
21.	Wh	at is Nerst equatio	n? V	Vrite mathematical
	rela	iti <mark>on?</mark>		
22.		o <mark>la</mark> in standard hyd gram?	drog	en electrode with
23.	(a)	Why transition ele	men	ts formed coloured
	(b)	Define transition ele	emen	its?
		Or		
	Whi	ich of two is parama y?	gneti	ic V (iv) or V(V) and
24	(a)	What is meant by cl	helate	e effect?

(b) Define optical isomerism? Give one example.

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Or

Explain the geometry and magnetic behaviour of $[Ni(CO)_{a}]$

- 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?
- 27. (a) Write IUPAC name of ${\rm CH_3CH_2NH~CH_3}$
 - (b) Explain Mendius reaction?

Or

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

(i)
$$R-C-NH_2 \xrightarrow{LiAlH_4} H_2O$$

- (ii) $C_6H_5NH_2 + Br_2 \otimes \dots$
- 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?

Or

- (a) Write short note on Sandmeyer's reaction?
- (b) Why do amines behave as nucleophiles?
- 30. (a) Explain geometry and magnetic behaviour of $[Ni(CN)_d]^{2-}$ on basis of VBT?
 - (b) $[Ti(H_2O)_6]^{3+}$ is coloured while $[Sc(H_2O)_6]^{3+}$ 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?

Or

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

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