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# **NEET 2022**

# **Questions, Answer Key & Solutions**

# Date: 17 July, 2022 | TIME: (02:00 PM to 05:20 PM)

Duration: 200 minutes (03 Hrs. 20 Min.) | Max. Marks: 720

#### Important Instructions: The Answer Sheet is inside this Test Booklet. When you are directed to open the Test Booklet, take out the Answer Sheet and fill in the particulars on OFFICE Copy carefully with blue/black ball point pen only. The test is of 3 hours duration and Test Booklet contains 200 multiple-choice questions (four options with a single correct answer) from Physics, Chemistry and Biology (Botany and Zoology). 50 questions in each subject are divided into two Sections (A and B) as per details given below. Section A shall consist of 35 (Thirty-five) Questions in each subject (Questions Nos - 1 to 35, 51 to 85, 101 to 135 and 151 (a) to 185). All questions are compulsory. (b) Section B shall consist of 15 (Fifteen) questions in each subject (Question Nos - 36 to 50, 86 to 100, 136 to 150 and 186 to 200). In Section B, a candidate needs to attempt any 10 (Ten) questions out of 15 (Fifteen) in each subject. Candidates are advised to read all 15 questions in each subject of Section B before they start attempting the question paper. In the event of a candidate attempting more than ten questions, the first ten questions answered by the candidate shall be evaluated. Each question carries 4 marks. For each correct response, the candidate will get 4 marks. For each incorrect response, one mark 3. will be deducted from the total scores. The maximum marks are 720. Use Blue/Black Ball Point Pen only for writing particulars on this page/marking responses on Answer Sheet. 4. Rough work is to be done on the space provided for this purpose in the Test Booklet only. 5. On completion of the test, the candidate must hand over the Answer Sheet (ORIGINAL and OFFICE Copy) to the Invigilator 6. before leaving the Room/Hall. The candidates are allowed to take away this Test Booklet with them. 7. The CODE for this Booklet is S3. Make sure that the CODE printed on the Original Copy of the Answer Sheet is the same as that on this Test Booklet. In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of both the Test Booklet and the Answer Sheet. The candidates should ensure that the Answer Sheet is not folded. Do not make any stray marks on the Answer Sheet. Do not write 8 your Roll No. anywhere else except in the specified space in the Test Booklet/Answer Sheet. 9. Use of white fluid for correction is NOT permissible on the Answer Sheet. 10. Each candidate must show on-demand his/her Admit Card to the Invigilator. No candidate, without special permission of the centre Superintendent or Invigilator, would leave his/her seat. 11. The candidates should not leave the Examination Hall without handing over their Answer Sheet to the Invigilator on duty and sign 12 (with time) the Attendance Sheet twice. Cases, where a candidate has not signed the Attendance Sheet second time, will be deemed not to have handed over the Answer Sheet and dealt with as an Unfair Means case. 13. Use of Electronic/ Manual Calculator is prohibited. 14. The candidates are governed by all Rules and Regulations of the examination with regard to their conduct in the Examination Room/Hall. All cases of unfair means will be dealt with as per the Rules and Regulations of this examination. 15. No part of the Test Booklet and Answer Sheet shall be detached under any circumstances. The candidates will write the Correct Test Booklet Code as given in the Test Booklet/Answer Sheet in the Attendance Sheet. 16. Compensatory time of one hour five minutes will be provided for the examination of three hours and 20 minutes duration, whether 17. such candidate (having a physical limitation to write) uses the facility of scribe or not. In case of any ambiguity in translation of any question, English version shall be treated as final. प्रश्नों के अनुवाद में किसी अस्पष्टता की स्थिति में, अंग्रेजी संस्करण को ही अन्तिम माना जायेगा। Name of the Candidate (in Capital letters): Roll Number: in figures: in words: Name of Examination Centre (in Capital letters) : Candidate's Signature: Invigilator's Signature: Resonance Eduventures Ltd. Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005 Ph. No.: +91-744-2777777, 2777700 | FAX No.: +91-022-39167222 To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029 f facebook.com/ResonanceEdu 🔰 twitter.com/ResonanceEdu 腸 www.youtube.com/resowatch 🕒 blog.resonance.ac.in Toll Free : 1800 258 5555 This solution was download from Resonance NEET 2022 Solution portal



### PART : CHEMISTRY



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#### NEET-2022 | DATE : 17-07-2022 | CHEMISTRY

Sol.	In cor	rect statemer	<sup>nt</sup> Reson				
	Shape	e of dxy, dyz	& dxz are sa	ame but :	sha <mark>pe o</mark> f d <sub>x²-y²</sub>	<ul> <li>– d<sub>z<sup>2</sup></sub> is different</li> </ul>	
	уŤ			zt	hetter tomorrow		
	e			$-\dot{c}$			
		() ×→		Red	Ŭ ×→		
	d <sub>x²</sub>	<sup>2</sup> -y <sup>2</sup>		anced	z <sup>2</sup> Reso		
54	Gado	linium has a	low value of	third ior	visation enthalm	v because of	
54.	(1) hi	nh electroneo	ativity			y because of	
	(2) hi	nh basic char	acter				
	(3) sn	nall size					
	(0) 01	h exchange	enthalpy				
Ans	(4)		onthalpy				
Sol.	Gd =	[54Xe] 4p <sup>7</sup> 5d	<sup>1</sup> 6s <sup>2</sup>				
•••	After	removal of 3"	<sup>d</sup> electron it (	aain half	filled electronic	configuration.	
	So du	e to high exc	hange entha	alpv. this	state acquires	extra stability.	
		ir to	0	137		,	
55.	Th <mark>e II</mark>	JPAC names	of an eleme	ent with a	atomic number	119 is :	
	(1) un	ununnium					
	(2) un	unoctium					
	(3) un	unennium					
	(4 <mark>) un</mark>	nilennium					
Ans.	(3)						
Sol.	Atomi	c number	IUPAC	C Name			
	11 <mark>9</mark>		Unune	ennium			
56. R	Match	n List-I with Li	st-II.				
		List-I			List-II		
		(Hydrides	)		(Nature)		
	(a)	MgH <sub>2</sub>		(i)	Electron prec	ise	
	(b)	GeH₄		(ii)	Electron defic	cient	
	(c)	B <sub>2</sub> H <sub>6</sub>		(iii)	Electron rich		
	(d)	EtHEng for better	tomorrow	(iv)	lonic		
	Choo	se the correc	t answer from	m the op	tions given belo	DW:INCE Hes better tomorrow Educating	
	(1) (a)	) – (I), (b) – (	II), (C) $-$ (iV),	(d) – (iii)			
	(2) (a)	) - (II), (b) -	(III), (C) – (IV)	), (d) – (i)	or better tomorrow		
	(3) (a)	) – (IV), (b) –	(I), (C) $-$ (II),	(d) - (iii)	Reso		
Educ	(4) (a	) — (III), (b) —	(I), (C) - (II),	(d) – (iv)	Educating for		
Ans.	(3)						

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			NE	ET-2022	DATE :	17-07-2022	CHEMISTRY
Sol.							
		Hydride	Nature	esona	nce"		
	(a)	MgH <sub>2</sub>	lonic	ucating for better	omorrow		
	(b)	GeH <sub>4</sub>	Electron precise	e.	Resor		
	(c)	B <sub>2</sub> H <sub>6</sub>	Electron deficient		Educating for b		
	(d)	HE	Electron rich	esona	nce		
	Meani covale	ng of electron preci ent bond formation.	se hydride $\Rightarrow$ hydride v	which cont	ain as a i	number of elec	tron which require for
57	RMaX	$+ CO_2 \xrightarrow{dry} V$					
57.	KiviyA	ether					
	What	is Y in the abové re	action?				
	(1) RC	COO- X+	(2) (RC	OO)₂Mg			
	(3) RC	COO <sup></sup> Ma <sup>+</sup> X	(4) R <sub>3</sub> C	O <sup>-</sup> Ma <sup>+</sup> X			
Δns	(3)		(1) 130	e mg x			
R		day					
Sol.	RMgX	$+ O = C = O - \frac{uy}{ethe}$	$\rightarrow 0 = C - 0 \text{ Mg}^{2}X$				
			R				
			H <sub>3</sub> O <sup>+</sup>				
			R-COOH				
59	Motob	Lict 1 with Lict LL					
50.			l iet-ll				
		class)		<b>a</b> )			
	(Diug	tacide	(i) Salvarsan	-)			
	(a) ΑΠ (b) Δn	tihistomines	(ii) Morphine				
	(c) An	algesice	(ii) Morphine (iii) Cimetidine				
	(d) An	timicrobials	(iii) Cimetidine (iv) Seldane				
	Choos	the correct answe	er from the options give	n helow.			
	(1) (a)	- (i) (b) $-$ (iv) (c) $-$	(ii) (d) - (iii)				
	(1) (a) (2) (a)	(i), (b) (iv), (c) - (iv), (c) - (iv) (c) - (iv) (c) - (c)	(ii), (d) - (ii)				
	(2) (a) (3) (a)	(iii), (b) - (ii), (c) - (iii), (c) - (c	(i), ( $\alpha$ ) (i) (ii)				
	(4) (a)	- (iii), (b) - (iv), (c) -	(ii), (d) - (i)				
Ans.	(4)	Resonance	Resonanci				
Sol.	Antaci	$ids \rightarrow Cimetidine$					
R	Antihi	stamines $\rightarrow$ Seldan	sonance"				
	Analo	esics $\rightarrow$ Morphine					
	Antimi		Educating for better tomorr				
59	Which	of the following sta	tement is not correct a	hout dihor	ano?		
53.	(1) Th	e four terminal Hudi	rogen atoms and the ty	vo Bo <mark>ron</mark> s	atoms lie	in one plane	
	(2) Ro	th the Roron atoms	are sp <sup>2</sup> hybridised			in one plane.	
	(2) D0	ere are two 3-centre	e-2-electron honds				
	( <u></u> ) Th	e four terminal R-H	honds are two centre t	wo electro	n honde		
	(+) 11		Solido die two Gentle l		n builus.		

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		NEET-2022   DATE : 17-07-2022   CHEMISTRY
Ans.	(2)	
Sol.	Not correct statement about B <sub>2</sub> H <sub>6</sub>	
	HHH	
	$H \xrightarrow{B} H \xrightarrow{B} H$	
	In $B_2H_6$ both Boron are sp <sup>3</sup> hybridise.	
<b>60</b> .	The incorrect statement regarding enzymes	is:Resonance' Resonance'
	<ul> <li>(1) Enzymes are polysaccharides.</li> <li>(2) Enzymes are very specific for a particula</li> <li>(3) Enzymes are biocatalysts.</li> </ul>	r reaction and substrate.
Ane	<ul> <li>(4) Like chemical catalysts enzymes reduce</li> <li>(1)</li> </ul>	the activation energy of bio processes.
Sol.	Enzymes are globular proteins.	
61. R	Given below are two statements : one is lab	elled as
	Assertion (A) and the other is labelled as R Assertion (A) : In a particular point defect,	an ionic solid is electrically neutral, even if few of its cations
	are missing from its unit cells. Reason (R): In an ionic solid. Frenkel defe	ect arises due to dislocation of cation from its lattice site to
	interstitial site, maintaining overall electrica	I neutrality In the light of the above statements, choose the
	(1) (A) is correct but (R) is not correct	
	(2) (A) is no correct but (R) is correct (3) Both (A) and (R) are correct and (R) is t	he correct explanation of (A)
<b>A</b> 10 G	(4) Both (A) and (R) are correct but (R) is no	ot the correct explanation of (A)
Sol.	Assertion is true $\Rightarrow$ After defect lonic solid a	re electrical neutral.
	Reason is true $\Rightarrow$ Frenkel defect is dislocat * Assertion is true & Reason true but Reason	ion of ion from their lattice site.
<u> </u>		
62. Re	es on an	maximum work done?
	Isothermal	Isothermal
	PSO P	
	(1) Resona	
	Educating for better	tomorrow Educating for better tomorrow
	Isothermal	
	Resona	Isothermal Resonance
	P	Res <sup>P</sup>
	(3) better tomorrow	(4)
	Resona	
Ans	(4) V	V Hosphance
Sol.	In P-V diagram work done is area under the work done.	curve. So maximum is area under the curve, maximum is
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63. R	Given below are two statements: . <b>Statement I:</b> Primary aliphatic amines react with HNO <sub>2</sub> to give unstable diazonium salts <b>Statement II:</b> Primary aromatic amines react with HNO <sub>2</sub> to form diazonium salts which are stable even
	above 300 K. Educating for better tomorrow Educating for better tomorrow
	In the light of the above statements, choose the most appropriate answer from the options given below:
	(1) Statement I is correct but Statement II is incorrect
	(2) Statement I is incorrect but Statement II is Correct.
	(3) Both Statement I and Statement II are correct.
Educa	(4) Both Statement I and Statement II are incorrect
Ans.	
Sol.	$R-NH_2 \xrightarrow{HNO_2} RN_2^+Cl^- \text{ (unstable)}$
	$C_{6}H_{5}-NH_{2} \xrightarrow[HNO_{2}]{273-278K} C_{6}H_{5}N_{2}+CI^{-} \text{ (stable)}$
	bu <mark>t un</mark> stable at 300 K.
64.	The IUPAC name of the complex -
	[Ag(H <sub>2</sub> O) <sub>2</sub> ][Ag(ON) <sub>2</sub> ] IS: (1) dicyanidosilver(I) diaguaargentate(I) (2) diaguasilver(I) dicyanidoargentate(I)
	(3) dicyanidosilver(II) diaquaargentate(II) (4) diaquasilver(II) dicyanidoargentate(II)
Ans.	aff (2) better to
Sol.	$[Ag(H_2O)_2][Ag(CN)_2] \longrightarrow [Ag(H_2O)_2]^+ + [Ag(CN)_2]^-$ $IUPAC Name$
	Diaquasilver(I) dicyanido argentite (I)
<b>CF</b>	
65.	which compound amongst the following is not an aromatic compound?
	(1) $\begin{tabular}{ c c c c } (2) \begin{tabular}{ c c c } (3) \begin{tabular}{ c c c } (4) \begin{tabular}{ c c } (4) ta$
Ans.	
Sol.	
	50nance <sup>4</sup>
	Not aromatic because it not planner due to sp <sup>3</sup> hybridised carbon atom.
	ating for better to be
66.	Given below are two statements:
	Statement I: In the coagulation of a negative sol, the flocculating power of the three given ions is in the
	order - Al <sup>3+</sup> > Ba <sup>2+</sup> > Na <sup>+</sup> sonance lessonance lessonance
	Statement II: In the coagulation of a positive sol, the flocculating power of the three given salts is in the
	order - NaCl > Na <sub>2</sub> SO <sub>4</sub> > Na <sub>3</sub> PO <sub>4</sub>
	In the light of the above statements, choose the most appropriate answer from the options given below:
	(1) Statement Lis incorrect but Statement Lis correct
	(2) Statement I and Statement II are correct
	(4) Both Statement I and Statement II are incorrect
Δns	(1)
71131	
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				NEET-202	2   DATE : 17-07-202	2   CHEMISTRY				
Sol.	Stater Stater Resul	Statement I : For negative sol coagulation greater the charge on cation greater is flocculation power.         Statement II : For positive sol coagulation greater is charge on anion greater is flocculation power.         Result : Statement I is correct & Statement II is in correct.								
67.	Match	List-I with List	- II.							
	List-I									
	(a) Li		(i) absorbent for c	arbon dioxide						
	(b) Na	Educating for better tom	(ii) electrochemica	al cells						
	(c) KC	PH	(iij) coolant in fast	t breeder react	ors Res					
	(d) Cs	rtomor	(iv) photoelectric							
	Choos	se the correct a	inswer from the option	ns given below	:					
	(1) (a)	-(i), (b) - (iii),	(c) - (iv), (d) - (ii)							
	(a) (a)	– (II), (b) – (III)	(C) - (I), (d) - (IV)							
	(3) (a)	-(iv), (b) - (i)	, (C) – (III), (d) – (II)							
	(4) (a)	-(III), (D) - (IV)	), (C) $-$ (II), (d) $-$ (I)							
Ans.	(2)									
501.		111-41	112-611							
					<u> </u>					
	(a)	LI	Electrochemical Ce							
	(b)	Na	Coolant in Fast bre	eder reactors						
	(c)	кон	Absorbent for carbo	ondioxide						
	(d)	Cs	Photo electric cell							
Ans. Sol.	(R). Asser Reaso In the (1) (A) (2) (A) (3) Bo (4) Bo (3) Asser Reaso	tion (A): ICI is on (R) : I-CI bo light of the abo is correct but is not correct th (A) and (R) a th (A) and (R) a th (A) and (R) a	more reactive than land is weaker than I-I ove statements, choos (R) is not correct but (R) is correct. are correct and (R) is are correct but (R) is ogen are more reactive partial lonic character	2. bond. se the most ap the correct ex not the correct e than l <sub>2</sub> . r due to elec <mark>tro</mark>	propriate answer from planation of (A). explanation of (A)	the options given below:				
69. Ans.	I₂ form Amon (1) SF (2)	st the followin $_4$ (2) X	I. g which one will have íeF2 (;	maximum lon 3) CIF <sub>3</sub>	e pair - lon <mark>e pa</mark> ir' elect (4) IF₅	ron repulsions?				
		F								
Sol.	(1 <mark>)</mark> SF									

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		NEET-2022   DATE : 17-07-2022   CHEMISTRY
	this act as buffer solution	
	$pH = pK_a + \log \frac{[CH_3COONa]}{[CH3COOH]}$	
	$= 4.57 + \log\left(\frac{0.1}{0.01}\right)$	
	= 4.57 + log 10	
	= 4.57 + 1 sonance Reson	
TO FRE	aling for botter tomos	
78.	(1) $H_2^+$ ion has one electron.	statement ?
	(2) $O_2^+$ ion is diamagnetic.	
	(3) The bond order of $O_2^+$ , $O_2$ , $O_2^-$ are 2.5	, 2, 1.5 and 1, respectively.
R	(4) $C_2$ molecule has four electrons in its two	vo degenerate $\pi$ molecular orbitals.
Ans. Sol	(2) Incorrect statement	
Con	(i) $H^{\oplus}_{\pm}$ ion have 1 electron	
	(ii) $\Omega^{\oplus}$ ion is performagnetic	
	(ii) $O_2$ ion is paramagnetic	2-
	(iii) species $O_2^{\circ}$ $O_2$ $O_2^{\circ}$ $O_2^{\circ}$	52 ing for better tomorrow
	(iv) EC of C <sub>2</sub> is $(\sigma 1s)^2 (\sigma^* 1s)^2 (\sigma 2s)^2 (\pi^* 2s)^2 (\pi 2p_x^2 = 2py^2)$	
R		
79. Edu	<ul> <li>(1) Thermoplastic polymers are capable of respectively.</li> <li>(2) Thermosetting polymers are reusable.</li> <li>(3) Elastomers have polymer chains held</li> </ul>	of correct? of repeatedly softening and hardening on heating and cooling together by weak intermolecular forces.
	(4) Fibers posses high tensile strength.	sonance"
Ans.	(2)	ng for better tomorrow
Sol.	Thermosetting polymers are not reusable	because on extensive heating they from cross linking.
80.	Match List-I with List-II.	List-II
	(Produc <mark>ts fo</mark> rmed)	Reaction of carbonyl compound with)
	(a) Cyanohydrin Ress (i	i)and NH2OH Resonance' Resonance'
	(b) Acetal (i	Educating for before tomorrow
	(c) Schiff's base (i	
	Choose the correct answer from the option	ns aiven below: Resonance Resonance
	(1) (a)-(i), (b)-(iii), (c)-(ii), (d)-(iv)	(2) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)
	(3) (a)-(iii), (b)-(iv), (c)-(ii), (d)-(i)	(4) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)
Ans.	(2)	

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			NEET-2022	DATE : 17-0	7-2022   CHE	MISTRY
Sol.	>C=O + HCN	→>c< <sup>OH</sup>				
	sonance"	- CN				
		cyanohydrin				
			ICCE Inter tomorrow			
	>C=O + R-OH	→>C< <sub>OR</sub> he	miacetal			
		ucating for better tomorrow				
		R-OH				
	Educating for better tomorro	↓ ∠OR				
	sonance" 6					
		acetal				
	$>C=O + NH_2-OH$	$\rightarrow$ C=N-C	ЭН			
	iting for better to	ovimo				
		UXIME				
81	Given below are two st	tatements:				
Re	Statement I:	atemento.				
	The boiling points of f	aldebydes and ketr	nos are higher	than hydrocau	hone of comp	arable molecula
	massos bosques of v	aluenyues allu kelu	sociation in ald	than nyulocal	otopos duo to	
	interactions	veak molecular as		enydes and k	elones que lo	alpole – alpole
	Interactions.					
						ropport
	The boiling points of al	dehydes and ketone	es are lower than	the alcohols of	of similar mole	cular masses due
	to the absence of H-bo	onding.				5®
	In the light of the above	e statements, choos	se the most appr	opriate answe	r from the opti	ons given below:
	(1) Statement I is corr	ect but Statement I	I is incorrect			
	(2) Statement I is inco	rrect but Statemen	t II is correct			
	(3) Both Statement I a	and Statement II are	e correct			
	(4) Both Statement I a	and Statement II are	e incorrect			
Ans.	(3)					
Sol.	Statement I:					and the second second second
	Hydrocarbon are non p	oolar. But aldehyde	and ketone are	polar due to po	olar >C=O bon	d. Therefore
	Statement II:	on present.				
	Alcohol having H-bond	ling but aldehvde ar	nd Ketene does i	not having H-h	onding	
	Alloonon navning i i bona	ing but aldonydo al		lot naving in c	onung.	
<mark>82</mark> .	The given graph is a re	epresentation of kin	etics of a reactio	n.		
	Pesonanci					
	Constant temp	erature T				
	y y	esonance				
	ting for better tomo row Ed					
	Resonance	e Reson				
	Educating for better to Aorr	Educating for be	tter tomorrow	coucaung for better tom		
	The y and x axes for z	ero and first order re	eactions, respec	tively are	Resonance	
	(1) zero order (y = rate	and x = concentrat	ion), first order (	$y = t_{1/2}$ and x =	concentration	)
	(2) zero order ( $y = rate$	e and x = concentra	tion), first order	(y = rate and x)	z = t <sub>1/2</sub> )	
	(3) zero order ( y = cor	icentration and $x = 1$	time), first order	$(y = t_{1/2} \text{ and } x)$	= concentratio	n) <sup>rg for better tomorrow</sup>
	(1) zoro ordor (11 oon	centration and $x = 1$	time), first order	(v = rate constants)	stant and $x = c$	oncentration)
	(4) Zero order ( $y = con$			()		
Ans.	(4)  zero order  (y = con) $(1)$		, .	()		,

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Sol.	y Educating for bette					
	esonance"					
	X→					
	For zero order Ra	$Ie = K[A]^{\circ}$				
	For 1 <sup>st</sup> order $\frac{1}{2}$ =	$=\frac{m^2}{K}$				
83. <sub>Re</sub>	The incorrect state (1) Enantiomers a (2) A racemic mix (3) S <sub>N</sub> 1 reaction y (4) The product of inversion of confic	ement regarding chirality are superimposable mirro ture shows zero optical r ields 1:1 mixture of both obtained by S <sub>N</sub> 2 reaction	r is: or images on otation. enantiomers on of haloalk	each other. ane having cl	nirality at th	ne reactive site shows
Ans.	(1)	jaradom				
Sol.	Enantiomers are r	not superimposable mirro	or image on e	each other.		
84. Res Res Res Res	The Kjeldahl's me which one of the f NH <sub>2</sub> (1) NO <sub>2</sub> (3) (3)	ethod for the estimation o ollowing compounds?	f nitrogen ca (2)	n be used to e	stimate the	amount of nitrogen in
Ans.				°N∕		
Sol.	–NO <sub>2</sub> , diazo, pyric	dine cannot be converted	l into ammon	ium sulphate.		
85. Re	At 298 K, the stan -0.44 V and 0.80 On the basis of sta	idard elect <mark>rode</mark> potentials V, respectively. andard electrode potenti	s of Cu <sup>2+/</sup> Cu al, predict wh	, Zn <sup>2+/</sup> Zn, Fe <sup>2-</sup>	F/Fe and A <mark>g</mark> wing reactic	are 0.34 V, –0.76V, on can not occur?
	(1) $FeSO_4(aq) + Z$ (2) 2CuSO <sub>4</sub> (aq) +	$2Ag(s) \rightarrow 2BO_4(aq) + Fe(2Ag(s) \rightarrow 2Cu(s) + Ag_2S$	s) SO4(aq)			
	(3) CuSO <sub>4</sub> (aq) + <mark>Z</mark>	$Zn(s) \rightarrow ZnSO_4(aq) + Cu$	(s) Respi			
	(4) CuSO <sub>4</sub> (aq) + F	$Fe(s) \rightarrow FeSO_4(aq) + Cu$	(s)			
Ans.	(2) Educating for bette					

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#### Section-II

Single Choice Type This section contains 15 Single choice questions. Each question has 4 choices (1), (2), (3) and (4) for its answer, out of which Only One is correct.

86.	M <mark>atch</mark>	List-I with List-II.				
		List-I			List-II	
		(Ores)			(Composition)	
	(a)	Haematite		(i)	Fe <sub>3</sub> O <sub>4</sub>	
	(b)	Magnetite		(ii)	ZnCO <sub>3</sub>	
	(c)	Calamine		(iii)	Fe <sub>2</sub> O <sub>3</sub>	
	(d)	Kaolinite		(iv)	[Al <sub>2</sub> (OH) <sub>4</sub> Si <sub>2</sub> O <sub>5</sub> ]	
	Choos	e the correct answer fro	om the op	otions give	en below:	
	(1) (a)	-(iii), (b)-(i), (c)-(iv), (d)-	(ii)			
	(2) (a)	-(i), (b)-(iii), (c)-(ii), (d)-(	iv)			
	(3 <mark>) (a)</mark>	-(i), (b)-(ii), (c)-(iii), (d)-(	iv)			
	(4) (a)	-(iii), (b)-(i), (c)-(ii), (d)-(	iv)			
Ans.	(4)					
Sol.		List-I		List-II		
		(Ores)		(Compo	osition)	
	(a)	Haematite	(i)	Fe <sub>2</sub> O <sub>3</sub>		
	(b)	Magnetite	(ii)	Fe <sub>3</sub> O <sub>4</sub>		
	(c)	Calamine	(iii)	ZnCO₃		
	(d)	Kaolinite	(iv)	[ <mark>Al₂(O</mark> H	I)4Si2O5]	

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# Which one of the following is not formed when acetone reacts with 2-pentanone in the presence of dilute

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			NEET-2022   DATE :	17-07-2022   CHEMIST	RY
Sol.	CI OH 6 5 4 3 2 Br	Resonance <sup>®</sup>		Resonance <sup>8</sup>	
	1-Bromo-5-chloro-4-	methylhexan-3-ol			
93.	In the neutral or faint of manganese in this	ly alkaline medium, K reaction is from	MnO4 oxidises iodide into i	odate. The change in oxi	dation state
Ane	(1) +7 to +3	(2) <mark>+6 t</mark> o +5	(3) + <mark>7 to</mark> +4	(4) +6 <mark>to +</mark> 4	
Sol.	In neutral or faintly a	t kaline medium			
	$^{+7}Mno_{4}^{-}$ + I <sup>-</sup> $\longrightarrow$ $^{+7}N$	4 1no <sub>2</sub> + IO <sub>3</sub>			
	Change in oxidation	state of Mn is from +7	7 to +4		
94. Re	$3O_2(g) \implies 2O_3(g)$ for the above reaction	g) In at 298 K, Kc is four	nd to be 3.0 × 10 <sup>-59</sup> . If the	concentration of O2 at ec	quilibrium is
	(1) 2.4 × $10^{31}$	(2) $1.2 \times 10^{21}$	(3) 4.38 × 10 <sup>-32</sup>	(4) 1.9 × 10 <sup>-63</sup>	
Ans.	(3)		( 0 10 50		
Sol.	3O <sub>2</sub> at equilibrium 0.04M	$(g) \Longrightarrow 2O_3(g)$	$x_{c} = 3 \times 10^{-59}$		
	$K_{\rm C} = \frac{[O_3]^2}{[O_2]^3} = 3 \times 10^{-3}$	)–59			
	$= \frac{[O_3]^2}{(4 \times 10^{-2})^3} = 3 \times 2$	10 <sup>-59</sup>			
	$[O_3]^2 = 64 \times 3 \times 10^{-6}$	×10 <sup>–59</sup>			
	$= 192 \times 10^{-63}$ = 19.2 × 10^{-64}				
	= 4.38 × 10 <sup>-32</sup>				
95.	Copper crystallises in g cm <sup>-3</sup> . Calculate the	n fcc unit cell with cel atomic mass of copp	I edge length of 3.608 × 1 per.	0 <sup>-8</sup> cm. the density of cop	oper is 8.92
Re	(1) 60 u	(2) 65 u	(3) 63.1 u	(4) 31.55 u	
Ans. Sol.	(3) fcc unit cell $z = 4$				
Re	$d = \frac{Z \times M}{N_A \times Volume}$				
	8. <mark>92 =</mark> Resona 4	×M Resor			
	6.02×10 <sup>23</sup> ×	[3.608×10 <sup>-8</sup> ] <sup>3</sup>			
	$8.92 = \frac{4}{2}$	× Matting for better tomorrow			
	$6.02 \times 10^{23} \times M = 63.05$	46.97×10 <sup>-24</sup>			

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