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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.		rect statemen		ice°	Reso	nance" Re	
	Shape	e of dxy, dyz a	dxz are same	e but s	shape of d _{x²-y²}	– d _{z²} is different	
	уŤ	Aresonal		ztd			
	\subseteq		Resonar	Å	Reso		
		x→		A	×→		
		Yesone		Y = Y	better tomorrow		
	d _{x²}	2-y ²		d d	z ² Reso		
54.	Gado	linium has a l	ow value of th	ird ioni	isation enthalpy	/ because of	
	(1) hiợ	gh electronega	ativity				
	(2) hig	gh basic chara	acter				
	. ,	nall size					
		gh exchange (enthalpy				
Ans.	(4)	pr to					
Sol.		[54Xe] 4p ⁷ 5d ¹					
			-		filled electronic	-	
	So du	le to high excl	hange enthalp	y, this	state acquires	extra stability.	
55.	The II	IPAC names	of an element	with a	tomic number ?	119 is ·	
00.		ununnium	or an element	with a			
		unoctium					
		unennium					
		nilennium					
Ans.	(3)						
Sol.	Atomi	ic number	IUPAC N	ame			
	11 <mark>9</mark>		Ununenn	ium			
56 .	Match	h List-I with Lis	st-II.				
		List-I			List-II		
	(-)	(Hydrides)		:\	(Nature)		
	(a)	MgH ₂		i) ::\	Electron preci		
	(b)	GeH₄ B₂H6		ii) iii)	Electron defic Electron rich	ient	
	(c) (d)	HF		iv)	lonic		
	• •		```	,	tions given belo		
			i), (c) – (iv), (d)	in or in the	Education for	better tomorrow Educati	
			iii), (c) – <mark>(iv),</mark> (c				
			(i), (c) – (ii), (d)				
			(i), (c) – (ii), (d)				
Ans.	(3)	0		. ,			

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		NEET-2022 DA	TE : 17-07-2022 CHEMISTRY
Sol.			
	Hydride	Nature Nature	
	(a) MgH ₂	Educating for lonic norrow Educating for better omorro	
	(b) GeH ₄	Electron precise	
	(c) B ₂ H ₆	Electron deficient	
	(d) HF	Electron rich	
		on precise hydride \Rightarrow hydride which contain a	as a number of electron which require f
	covalent bond for		
57.	RMgX + CO ₂ —	$\stackrel{\text{IV}}{\longrightarrow} Y \xrightarrow{H_3O^+} \text{RCOOH}$	
	What is Y in the a		
	(1) RCOO ⁻ X ⁺	(2) (RCOO)₂Mg	
	(3) RCOO ⁻ Mg ⁺ X	(4) R₃CO⁻Mg⁺X	
Ans.	(3)		
Sol.	RMgX + O = C =	$O \xrightarrow{dry} O = C - O^{-} Mg^{+}X$	
	F	ether I R	
		H ₃ O ⁺	
		R-COOH	
		R-COOIT	
58.	Match List - 1 with		
	List-I	List-II	
	(Drug class)	(Drug molecule)	
	(a) Antacids	(i) Salvarsan	
	(b) Antihistamines	., .	
	(c) Analgesics	(iii) Cimetidine	
	(d) Antimicrobials	(iv) Seldane ct answer from the options given below:	
		v), (c) - (ii), (d) - (iii)	
		(iii), (c) - (i), (d) - (ii)	
		(ii), (c) - (iv), (d) - (i)	
	attender better to	(iv), (c) - (ii), (d) - (i)	
Ans.	(4) (4)		
Sol.	Antacids \rightarrow Cime	r tomorrow Educating for better tomorrow Educati	
Re	Antihistamines \rightarrow		
	Analgesics \rightarrow Mo		
	Antimicrobials \rightarrow		
	-sonance	Resonance [*] Resonance	
59.	Which of the follo	wing statement is not correct about diborane	Educating for better tomorrow
		nal Hydrogen atoms and the two Boron atom	
		har ryangen atoms and the the boron atom $r_{\rm atom}$ atoms are sp ² hybridised.	Educating for better tomorrow
		3-centre-2-electron bonds.	

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Ans.	(2)	
Sol.	Not correct statement about B ₂ H ₆	
	H ↓ H ↓ H Sold H	
	In B_2H_6 both Boron are sp ³ hybridise.	
60 .	The incorrect statement regarding enzymes	is Resonance' Resonance'
	 (1) Enzymes are polysaccharides. (2) Enzymes are very specific for a particula (3) Enzymes are biocatalysts. 	r reaction and substrate.
Ang	(4) Like chemical catalysts enzymes reduce	the activation energy of bio processes.
Ans. Sol.	(1) En <mark>zym</mark> es are globular proteins.	
61. R	Given below are two statements : one is lab	
	Assertion (A) and the other is labelled as R Assertion (A) : In a particular point defect,	eason (R) an ionic solid is electrically neutral, even if few of its cations
	are missing from its unit cells.	ect arises due to dislocation of cation from its lattice site to
	interstitial site, maintaining overall electrical	I neutrality In the light of the above statements, choose the
	most appropriate answer from the options g (1) (A) is correct but (R) is not correct	iven below.
	(2) (A) is no correct but (R) is correct	
	 (3) Both (A) and (R) are correct and (R) is t (4) Both (A) and (R) are correct but (R) is not 	he correct explanation of (A)
Ans.	(4) (4)	
Sol.	Assertion is true \Rightarrow After defect lonic solid a	
	Reason is true \Rightarrow Frenkel defect is dislocat * Assertion is true & Reason true but Reaso	
<u> </u>		
62.	Which of the following p-V curve represents	maximum work done?
	Isothermal	n Isothermal
	Isotherman	
	P	P
	(1)	(2)
	Resona Educating for better	Ince Resonance
	v some	Res V
	Isothermal	Educating
		Isothermal Resonance
	P	Res ['] P
	(3) better tomorrow	(4)
	Resona	nce" A Resonance"
	V Educating for better	tomorrow Educating for better tomorrow
Ans. Sol.	 (4) 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: . Statement I: Primary aliphatic amines react with HNO ₂ to give unstable diazonium salts Statement II: Primary aromatic amines react with HNO ₂ to form diazonium salts which are stable even
	above 300 K. 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.	$R-NH_2 \xrightarrow{HNO_2} RN_2^+Cl^- \text{ (unstable)}$
	$C_{6}H_{5}-NH_{2} \xrightarrow{273-278K} C_{6}H_{5}N_{2}+CI^{-} \text{ (stable)}$
	bu <mark>t un</mark> stable at 300 K.
Re	
64.	The IUPAC name of the complex -
	[Ag(H ₂ O) ₂][Ag(CN) ₂] is: (1) dicyanidosilver(I) diaquaargentate(I) (2) diaquasilver(I) dicyanidoargentate(I)
	(3) dicyanidosilver(II) diaquaargentate(II) (4) diaquasilver(II) dicyanidoargentate(II)
Ans.	
Sol.	$[Ag(H_2O)_2][Ag(CN)_2] \longrightarrow [Ag(H_2O)_2]^+ + [Ag(CN)_2]^-$ IUPAC Name
	Diaquasilver(I) dicyanido argentite (I)
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.	
	sonance'
	sp ³ Not aromatic because it not planner due to sp ³ hybridised carbon atom.
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 ³ + > Ba <mark>²+ ></mark> Na ⁺ containing the Resignance of Resignance
	Statement II: In the coagulation of a positive sol, the flocculating power of the three given salts is in the
	or <mark>der -</mark> NaCl > Na ₂ SO ₄ > Na ₃ PO ₄
	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 incorrect.
	(2) Statement I is incorrect but Statement II is correct
	(3) Both Statement I and Statement II are correct
Ans.	(4) Both Statement I and Statement II are incorrect.
AII3.	
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	Edu	esonance icating for better tomorrow	v	NEET-20	22 DATE : 17-07-202	2 CHEMISTRY
Sol.	State	ment I : For	negative sol coagu	lation greater the	charge on cation greate	r is flocculation power.
Statement II : For positive sol coagulation greater is charge on anion gre				harge on anio <mark>n gr</mark> eater is	s flocculation power.	
	Resul	t: Statemen	t I is correct & State	ement II is in corr	ect.	
67.	Match	List-I with L	ist - II.			
	List-I		ReList-II			
	(a) Li		(i) absorbent	for carbon dioxid	e	
	(b) Na	Resona Educating for better	(ii) electroche			
	(c) KC	н	.,	n fas <mark>t bre</mark> eder rea	ctors	
	(d) Cs		(iv) photoeled			
	• •		t answer from the c		ow:	
			iii), (c) – (iv), (d) – (i			
			(iii), (c) $-$ (i), (d) $-$ (iv)			
	ating for bette	r to	(ï), (c) – (iii), (d) – (
			(iv), (c) - (ii), (d) - (iv), (c) - (iv), (d) - (iv)			
ns.	(1) (4)	(), (0)	(17), (0) (11), (0) ((')		
iol.	ating for bette					
- Chi		List I	List II			
	(a)	Li	Electrochemica			
				t breeder reactors		
	(b)	Na				
	(c)	KOH	Absorbent for o	carbondioxide		
		-				
8. 8.		Cs below are tv	Photo electric o vo statements : one		ssertion (A) and the oth	er is labelled as Reas e
Real Real	Given (R). Asser Reaso In the (1) (A) (2) (A) (3) Bo (4) Bo (3) Asser Reaso	below are tw tion (A): ICI on (R) : I-CI light of the a) is correct bu) is not corre th (A) and (F th (A) and (F tion : Interh	wo statements : one is more reactive the bond is weaker that above statements, o ut (R) is not correct ct but (R) is correct R) are correct and (I R) are correct but (F alogen are more re re partial lonic chara	e is labelled as As nan I ₂ . n I-I bond. choose the most a c R) is the correct e R) is not the corre	appropriate answer from	the options given belo
Real Real	Given (R). Asser Reaso In the (1) (A) (2) (A) (3) Bo (4) Bo (3) Asser Reaso	below are tw rtion (A): ICI on (R) : I-CI light of the a) is correct b) is not corre th (A) and (F th (A) and (F rtion : Interh on : I–CI hav	wo statements : one is more reactive the bond is weaker that above statements, o ut (R) is not correct ct but (R) is correct R) are correct and (I R) are correct but (F alogen are more re re partial lonic chara	e is labelled as As nan I ₂ . n I-I bond. choose the most a c R) is the correct e R) is not the corre	appropriate answer from explanation of (A). ct explanation of (A)	the options given belo
Ra Ra Sol. Ra	Given (R). Asser Reaso In the (1) (A) (2) (A) (3) Bo (4) Bo (3) Asser Reaso I ₂ form	below are tw tion (A): ICI on (R) : I-CI light of the a) is correct bu) is not corre th (A) and (F th (A) and (F tion : Interh on : I–CI hav n covalent bo	wo statements : one l is more reactive the bond is weaker that bove statements, o ut (R) is not correct ct but (R) is correct ct but (R) is correct R) are correct and (R alogen are more re re partial lonic chara ond.	e is labelled as As nan I ₂ . n I-I bond. choose the most a c R) is the correct e R) is not the corre active than I ₂ . acter due to elect	appropriate answer from explanation of (A). ct explanation of (A)	the options given belo between I & CI where a
Ra Ra Sol. Ra	Given (R). Asser Reaso In the (1) (A) (2) (A) (3) Bo (4) Bo (3) Asser Reaso I ₂ form	below are tw rtion (A): ICI on (R) : I-CI light of the a) is correct be) is not corre th (A) and (F th (A) and (F rtion : Interh on : I–CI hav n covalent bo	wo statements : one l is more reactive the bond is weaker that bove statements, o ut (R) is not correct ct but (R) is correct ct but (R) is correct R) are correct and (R alogen are more re re partial lonic chara ond.	e is labelled as As nan I ₂ . n I-I bond. choose the most a c R) is the correct e R) is not the corre active than I ₂ . acter due to elect	appropriate answer from explanation of (A). ct explanation of (A) ro negativity difference b	the options given belo between I & CI where a
ns. ol.Re	Given (R). Asser Reaso In the (1) (A) (2) (A) (3) Bo (4) Bo (3) Asser Reaso I ₂ form Amon	below are tw rtion (A): ICI on (R) : I-CI light of the a) is correct be) is not corre th (A) and (F th (A) and (F rtion : Interh on : I–CI hav n covalent bo	wo statements : one is more reactive the bond is weaker that above statements, of ut (R) is not correct ct but (R) is correct alogen are correct and (I R) are correct but (F alogen are more re re partial lonic chara ond.	e is labelled as As nan I ₂ . n I-I bond. choose the most a c R) is the correct e R) is not the corre active than I ₂ . acter due to elect	appropriate answer from explanation of (A). ct explanation of (A) ro negativity difference b one pair - lone pair' elect	the options given belo between I & CI where a
ns. iol.Re	Given (R). Asser Reaso In the (1) (A) (2) (A) (3) Bo (4) Bo (3) Asser Reaso I ₂ form Amon (1) SF	below are tw rtion (A): ICI on (R) : I-CI light of the a) is correct be) is not corre th (A) and (F th (A) and (F rtion : Interh on : I–CI hav n covalent bo	wo statements : one is more reactive the bond is weaker that above statements, of ut (R) is not correct ct but (R) is correct alogen are correct and (I R) are correct but (F alogen are more re re partial lonic chara ond.	e is labelled as As nan I ₂ . n I-I bond. choose the most a c R) is the correct e R) is not the corre active than I ₂ . acter due to elect	appropriate answer from explanation of (A). ct explanation of (A) ro negativity difference b one pair - lone pair' elect	the options given belo between I & CI where a
68. 18. 18. 19. 19. 19. 19. 19. 19. 19. 19	Given (R). Asser Reaso In the (1) (A) (2) (A) (3) Bo (4) Bo (3) Asser Reaso I ₂ form Amon (1) SF	below are tw rtion (A): ICI on (R) : I-CI light of the a) is correct be) is not corre th (A) and (F th (A) and (F rtion : Interh on : I–CI hav n covalent bo	wo statements : one is more reactive the bond is weaker that above statements, of ut (R) is not correct ct but (R) is correct alogen are correct and (I R) are correct but (F alogen are more re re partial lonic chara ond.	e is labelled as As nan I ₂ . n I-I bond. choose the most a c R) is the correct e R) is not the corre active than I ₂ . acter due to elect	appropriate answer from explanation of (A). ct explanation of (A) ro negativity difference b one pair - lone pair' elect	the options given belo between I & CI where a
ns. jol. 9.	Given (R). Asser Reaso In the (1) (A) (2) (A) (3) Bo (4) Bo (3) Asser Reaso I ₂ form Amon (1) SF	below are tw rtion (A): ICI on (R) : I-CI light of the a) is correct be) is not corre th (A) and (F th (A) and (F rtion : Interh on : I–CI hav n covalent bo	wo statements : one is more reactive the bond is weaker that above statements, of ut (R) is not correct ct but (R) is correct alogen are correct and (I R) are correct but (F alogen are more re re partial lonic chara ond.	e is labelled as As nan I ₂ . n I-I bond. choose the most a c R) is the correct e R) is not the corre active than I ₂ . acter due to elect	appropriate answer from explanation of (A). ct explanation of (A) ro negativity difference b one pair - lone pair' elect	the options given belo between I & CI where a
ns. iol.Re	Given (R). Asser Reaso In the (1) (A) (2) (A) (3) Bo (4) Bo (3) Asser Reaso I ₂ form Amon (1) SF	below are tw rtion (A): ICI on (R) : I-CI light of the a) is correct be) is not corre th (A) and (F th (A) and (F rtion : Interh on : I–CI hav n covalent bo	wo statements : one is more reactive the bond is weaker that above statements, of ut (R) is not correct ct but (R) is correct alogen are correct and (I R) are correct but (F alogen are more re re partial lonic chara ond.	e is labelled as As nan I ₂ . n I-I bond. choose the most a c R) is the correct e R) is not the corre active than I ₂ . acter due to elect	appropriate answer from explanation of (A). ct explanation of (A) ro negativity difference b one pair - lone pair' elect	the options given belo between 1 & CI where a

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	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 Resor = 5.57	
70		totoment?
78.	Which amongst the following is incorrect s (1) H_2^+ ion has one electron.	
	-	
	(2) O_2^+ ion is diamagnetic.	
	(3) The bond order of O_2^+ , O_2 , O_2^- are 2.5	
Ans.	(4) C₂ molecule has four electrons in its tv(2)	vo degenerate π molecular orbitals.
Sol.	Incorrect statement.	
	(i) H_2^{\oplus} ion have 1 electron	
	(ii) O_2^{\oplus} ion is paramagnetic	
	(iii) species O_2^{\oplus} O_2 O_2^{-} (D2-
	2.5 2 1.5 1 (iv) EC of C ₂ is $(\sigma 1s)^2 (\sigma^* 1s)^2 (\sigma 2s)^2 (\pi^* 2s)^2 (\pi 2p_x^2 = 2py^2)$	
R		
79. E	 Which statement regarding polymers is not (1) Thermoplastic polymers are capable or respectively. (2) Thermosetting polymers are reusable. (3) Elastomers have polymer chains held (4) Fibers posses high tensile strength. 	of repeatedly softening and hardening on heating and cooling
Ans.	(2)	
Sol.	Thermosetting polymers are not reusable	because on extensive heating they from cross linking.
80.	Match List-I with List-II.	
	(Produc <mark>ts fo</mark> rmed) (Reaction of carbonyl compound with)
		i) NH2 <mark>OH</mark> Resonance' Resonance'
		iii) tomorrow RNH2 Educating for better tomorrow
	cating for better tomorrow Educating for better tomorrow	
	(d) Oxime (Choose the correct answer from the optio	iv) HCN
	(1) (a)-(i), (b)-(iii), (c)-(ii), (d)-(iv)	(2) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)
	(3) (a)-(ii), (b)-(iv), (c)-(ii), (d)-(iv)	(2) (a) - (iv) , (b) - (ii) , (c) - (iv) , (d) - $(i)(4) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)$
Ans.	(2)	

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		N	EET-2022 DATE :	17-07-2022 CHE	MISTRY
Sol.	>C=O + HCN	·>c< ^{OH}			
	esonance" Re	- CN			
	(cyanohydrin			
	Resonance	∠ ∠OH	rrow Educating for be		
	>C=O + R-OH	C <or hemiac<="" p=""></or>	etal		
		ating for better tomorrow			
		R-OH			
	Educating for better tomorrow	↓ _OR			
	sonance" R				
	ating for better tomo				
	a	cetal			
	$>C=O + NH_2-OH$	→>C=N-OH			
	ating for better to	oxime			
		Oxime			
81.	Given below are two sta	tements:			
Re	Statement I:	itemento.			
	The boiling points of al	debydes and ketones	are higher than hyd	Irocarbons of comr	arable molecular
	masses because of we	-		•	
	interactions.	eak molecular associa	tion in aldenydes a		
	Statement II:				
		abudaa and katanaa ar	lower then the clea	hala of similar mala	
	The boiling points of ald	-	e lower than the alco	nois of similar mole	cular masses due
	to the absence of H-bon	-			
	In the light of the above			nswer from the opti	ons given below:
	(1) Statement I is correct				
	(2) Statement I is incorr				
	(3) Both Statement I an				
	(4) Both Statement I an	d Statement II are inco	orrect		
Ans.	(3)				
Sol.	Statement I:	lar Dutaldahuda and I			d Therefore
	Hydrocarbon are non po dipole - dipole interactio	•	ketone are polar due	to polar >C=O bor	ia. I neretore
	Statement II:	n present.			
	Alcohol having H-bondir	ng but aldehyde and Ke	tene does not having	g H-bonding.	
	J	o		0 0	
82.	The given graph is a rep	presentation of kinetics	of a reaction.		
	Resonance				
	Constant temper	ature T			
	esonartie Re	sonance"			
	ating for better tomorrow				
	Resonance	Resonance			
		ro and first order reactin	ne respectively are		
	The y and x axes for zer (1) zero order $(y = rate x)$		duralian fac haller in more		
	(1) zero order ($y = rate a$				1)
	(2) zero order ($y = rate$	1 Normal Acade States 1 - 1 Name 1 - 2 Name	an based		
	(3) zero order ($y = conc$				
	(4) zero order ($y = conce$	entration and $x = time$)	, first order (y = rate	constant and $x = c$	oncentration)
Anc	(1)				
Ans.	(')				

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Sol.	y Educating for better					
	esonance"					
	$x \rightarrow$	nce [®] Resona				
	For zero order Rate					
	For 1 st order $\frac{T_1}{2}$ =	K				
83. Re	 (1) Enantiomers ar (2) A racemic mixtu (3) S_N1 reaction yie 	ment regarding chirality is e superimposable mirror ure shows zero optical rot elds 1:1 mixture of both er btained by S _N 2 reaction	images on e ation. nantiomers.		nirality at th	e reactive site shows
Ans.	(1)					
Sol.	Enantiomers are no	ot superimposable mirror	image on ea	ach other.		
84. Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref		hod for the estimation of r ollowing compounds?	(2)	be used to en	stimate the a	mount of nitrogen in
Ans.	(1)		~	¥		
Sol.		ne cannot be converted i	nto ammoniu	um sulphate.		
85. Re	–0.44 V and 0.80 V On the basis of sta	ndard electrode potential	, predict whi		Reson	
		$n(s) \rightarrow ZnSO_4(aq) + Fe(s)$				
		2Ag(s) → 2Cu(s) + Ag₂SC n(s) → ZnSO₄(aq) + Cu(s				
	aung för beran tomotrew.	$e(s) \rightarrow FeSO_4(aq) + Cu(s)$	· Educating for bei			
Ans.	(2) Resona	Ince [®] Resona				

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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.	Match	List-I with List-II.				
		List-I			List-II	
		(Ores)			(Composition)	
	(a)	Haematite		(i)	Fe ₃ O ₄	
	(b)	Magnetite		(ii)	ZnCO ₃	
	(c)	Calamine		(iii)	Fe ₂ O ₃	
	(d)	Kaolinite		(iv)	[Al ₂ (OH) ₄ Si ₂ O ₅]	
	Choos	e the correct answer fro	om the op	tions giv	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)		(Comp	position)	
	(a)	Haematite	(i)	Fe ₂ O ₃		
	(b)	Magnetite	(ii)	Fe ₃ O ₄		
	(c)	Calamine	(iii)	ZnCO:	Resonance"	
	(d)	Kaolinite Educating for b	(iv)	[Al₂(Ol	H)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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Sol.	CI OH		
Re	6 5 4 3 2 Br		
	1-Bromo-5-chloro-4-methylhexan-	3-ol Reson	
93. Re	In the neutral or faintly alkaline me	dium, KMnO4 oxidises iodide into i	odate. The change in oxidation state
	of manganese in this reaction is fro		
	(1) +7 to +3 (2) +6 to +	+5 (3) + <mark>7 to</mark> +4	(4) +6 to +4
Ans.	(3)	ce' Resonance'	
Sol.	In neutral or faintly at kaline mediu	im	
	$\stackrel{+7}{\text{Mno}_4^-} + \text{I}^- \longrightarrow \stackrel{+4}{\text{Mno}_2} + \text{IO}_3^-$		
	Change in oxidation state of Mn is	from +7 to +4	
94.	3O <mark>₂(g)</mark>		
•		c is found to be 3.0 \times 10 ⁻⁵⁹ . If the	concentration of O2 at equilibrium is
	0.040 M then concentration of O ₃ i		8
	(1) 2.4×10^{31} (2) 1.2×10^{31}		(4) 1.9 × 10 ⁻⁶³
Ans.	(3)		
Sol.	3O₂(g) ← 20	$V_3(g)$ K _c = 3 × 10 ⁻⁵⁹	
	at equilibrium 0.04M		
	$[O_3]^2$ 0.40.50		
	$K_{c} = \frac{[O_{3}]^{2}}{[O_{2}]^{3}} = 3 \times 10^{-59}$		
	$= \frac{[O_3]^2}{(4 \times 10^{-2})^3} = 3 \times 10^{-59}$		
	· · ·		
	$[O_3]^2 = 64 \times 3 \times 10^{-6} \times 10^{-59}$		
	$= 192 \times 10^{-65}$		
	$= 19.2 \times 10^{-64}$		
	= 4.38 × 10 ⁻³²		
95.	Copper crystallises in fee unit cells	with call adda langth of 3 608 x 10	$)^{-8}$ cm. the density of copper is 8.92
55.	$g \text{ cm}^{-3}$. Calculate the atomic mass		o cm. the density of copper is 0.92
	-	(3) 63 1 11	(4) 31 55 11
Ans	(1) 60 u (2) 65 u	(3) 63.1 u	(4) 31.55 u
	(1) 60 u (2) 65 u (3)	(3) 63.1 u Iesonance de Reson	(4) 31.55 u
	(1) 60 u (2) 65 u (3) fcc unit cell $z = 4$	(3) 63.1 u	(4) 31.55 u
	(1) 60 u (2) 65 u (3) fcc unit cell $z = 4$ $d = \frac{Z \times M}{Z \times M}$	(3) 63.1 u	(4) 31.55 u
	(1) 60 u (3) fcc unit cell z = 4 d = $\frac{Z \times M}{N_A \times Volume}$	(3) 63.1 u	(4) 31.55 u Resonance Resonance
	(1) 60 u (2) 65 u (3) fcc unit cell z = 4 $d = \frac{Z \times M}{N_A \times Volume}$ 8 92 - 4×M	Resonance [®] Resonance [®]	(4) 31.55 u
	(1) 60 u (2) 65 u (3) fcc unit cell z = 4 $d = \frac{Z \times M}{N_A \times Volume}$ $8.92 = \frac{4 \times M}{6.02 \times 10^{23} \times [3.608 \times 10^{-8}]}$	Resonance [®] Resonance [®]	
Ans. Sol.	(1) 60 u (3) fcc unit cell z = 4 d = $\frac{Z \times M}{N_A \times Volume}$ 8.92 = $\frac{4 \times M}{6.02 \times 10^{23} \times [3.608 \times 10^{-8}]}$ 8.92 = $\frac{4 \times M}{4 \times M}$	Resonance [®] Resonance [®]	(4) 31.55 u
	(1) 60 u (2) 65 u (3) fcc unit cell z = 4 d = $\frac{Z \times M}{N_A \times Volume}$ 8.92 = $\frac{4 \times M}{6.02 \times 10^{23} \times [3.608 \times 10^{-8}]}$ 4 × M	Resonance [®] Resonance [®]	(4) 31.55 u

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>= 450 to < 499	>= 400 to < 449	>= 350 to < 399	80%	20000	46600	68400
>= 400 to < 449	>= 375 to < 399	>= 325 to < 349	70%	20000	55150	59850
>= 375 to < 399	>= 350 to < 374	>= 300 to < 324	60%	20000	63700	51300
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