

Test Booklet Code

C4



(MANIPUR)

Questions, Answer Key & Solutions | Subject : Chemistry

Date: 06 June, 2023 | TIME: (12:00 PM to 03:20 PM) Duration: 200 minutes (03 Hrs. 20 Min.) | Max. Marks: 720

Important Instructions:

 The test of 3 hours 2 commutes 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: (a) Section B shall consist of 35 (Thirty-five) Questions in each subject (Question Nos - 1 to 35, 51 to 85, 101 to 135 and 151 to 150 and 158 to 200, in Section B acidadia tendes to attempt any 10 (Ten) questions nos - 4 to 55, 51 to 85, 101 to 135 and 158 to 200, in Section B acidadia tendes to attempt any 10 (Ten) questions answered by the candidate shall be outdotted as the acidadia tendes to attempt any 10 (Ten) questions answered by the candidate shall be outdotted as the total scores. The maximum marks are 200. Use BlueBlack Ball Point Pen only for wring particulars on this page/marking responses on Answer Sheet. Rough work is to be done on the space provided for this purpose in the Test Booklet with them. The CODE for this Booklet is F6. Make sure that the CODE printed on the original Copy of the Answer Sheet is the same as that on this Test Booklet with its Test Booklet with them. The candidate should ensure that the Answer Sheet (ORIGINAL and OFFICE Copy) to the Invigilator before level stells were sheet. No candidates should ensure that the Answer Sheet (ORIGINAL and OFFICE Copy) to the Invigilator for palacament of both the Test Booklet is F6. Make sure that the CODE printed on the space delex solution and the same Sheet. The candidates should ensure that the Answer Sheet. The candidate should ensure that the Answer Sheet. The candidate should ensure that the Answer Sheet is not folded. Do not make any stray marks on the Answer Sheet. Do not write vipor Rol No. anywhere see except in the space/indepalation or invigilator. No candidates without special permission of the	1.	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 Casty construction with blue black half paint page only.				
 Correct answerf from Physics, Chemistry and Bology (Botany and Zoology). So questions in each subject are divided into two Sections (A and B) as per ideals given below: Section A shall questions are compulsory. Section B shall consist of 35 (Thirty-Five) Questions in each subject (Questions Nos – 1 to 35, 51 to 85, 101 to 135 and 151 to 185). All questions are compulsory. Section B shall consist of 15 (Fifteen) questions in each subject (Questions Nos – 3 to 50, 81 to 100, 138 to 150 and 186 to 200). In Section B shall consist of 15 (Fifteen) questions out of 15 (Fifteen) in each subject of a candidate shall be availated. Candidates are advised to read all 15 questions in each subject (Orestion Nos - 36 to 50, 81 to 100, 138 to 150 and 186 to 200). In Section B shall consist of 15 (Fifteen) questions, the first ten questions answered by the candidate shall be availated. Each question carries 4 marks. For each correct response, the candidate will get 4 marks. For each incorrect response, one mark will be deduced from the total scores. The maximum marks are 720. Use BluePliack Ball Point Pen only for writing particulars on this page/marking responses on Answer Sheet. Rough work is to be done on the space or provided for this purpose in the Test Booklet with hem. The CODE for this Booklet is F6. Make sure that the CODE printed on the Original Copy of the Answer Sheet is the same st that on this Test Booklet with Test. The Condidates should not leave that the Answer Sheet. The candidate should interfect the Answer Sheet. The candidate will sub the Answer Sheet. The candidate should interfect the Answer Sheet. The candidate will sub the Answer Sheet. The candidate whole we the Examination Hall without handing over their Answer Sheet. The candidate whole Answer Sheet to 10 for grining Copy of the Answer Sheet.<!--</th--><th>2</th><th>The test is of 3 hours 20 minutes duration and test Booklet contains 200 multiple-choice questions (four options with a single</th>	2	The test is of 3 hours 20 minutes duration and test Booklet contains 200 multiple-choice questions (four options with a single				
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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	Name c	of Examination Centre (in Capital letters) :				
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	ing for better tomorrow		NEET (UG) 2023 D	ATE:06-06-2023	
		PART-	B : CEHMISTR	Y	
51.	Incorrect set of quant	um numbers from th	ne following is:		
	$(1) n = 4, l = 3, m_l = -1$	3,-2,- <mark>1,0,+</mark> 1,+2,+3,m	ls =-1/2		
	(2) $n = 5, l = 2, m_l = -2$	$2,-1,+1+2, m_s =+1/2$	10 Pesonance		
	(3) $n = 4, 1 = 2, m_1 = -$	-2,-1,0,+1,+2, ms =-	$\frac{1}{2}$ Educating for better tomorrow		
Δns	$(4) \Pi = 5, \Pi = 3, \Pi \Pi = 3$	-3,-2,-1,0, +1,+2, +3			
Sol.	$n = 5 = 2 m_1 = -2$	to +2			
Res	$m_1 = -2$.	-1.0.+1.+2			
	m _s = +1	/2 or -1/2			
52.	Given below are two (R).	statements: one is l	abelled as Assertion	(A) and the other	is labelled as Reasor
	Assertion (A):Ionisa However, small varia	tion enthalpy increas tions occur.	ses along each series	of the transition ele	ments from left to right
	Reason (R): There is in the inner d-orbitals	corresponding incre	ease in nuclear charge	which accompanie	s the filling of electrons
	In the light of the abo (1) (A) is correct but	ve statements, choc (R) is not correct.	ose the most appropria	ate answer form the	e options given below:
	(2) (A) is not correct	but (R) is correct.			
	(3) Both (A) and (R) a	are correct and (R) is	s the correct explanat	ion of (A) .	
_	(4) Both (A) and (R)	are correct but (R) is	not the correct expla	nation of (A) .	
Ans.	(3)				
Sol.	Both (A) and (R) corr	ect and R is the corr	ect explanation of (A)		
		ED Chapter d 8 a	block page po - 221		
	NCERT DAS	$ED \rightarrow Chaptel U & s$	s-block page $10 = 221$		
53.	Given below are two	statements: one is la	belled as Assertion (A) and the other is I	abelled as Reason(R)
	Assertion (A): Lithium and beryllium unlike their other respective group members form compounds with				
	pronounced ionic cha	aracter.			ng for better tomorrow
	Reason(R): Lithium a	and Magnesium hav	e similar properties du	ue to diagonal relat	ionship.
	In the light of the abo	ve statements, choo	ose the correct answe	r from the options g	given below:
	(1) (A) is true but (R)	is false.			
	(2) (A) is false but (R) is true.			
	(3) Both (A) and (R) a	are true and (R) is the	e correct explanation	of (A).	
Ane	(4) DOIN (A) and (R) a	are true but (K) is no	a the correct explanat	ion of (A) .	
Sol		nalou <mark>s properties of</mark>	Li and Be		
001.	Similarities between	i and mg due to dia	gonal Relationship pa	age no = 304 [NCER	271
					ance r tomorrow
54.	For a weak acid HA,	the percentage of o	dissociation is nearly	1% at equilibrium.	If the concentration o
	a <mark>cid</mark> is 0.1 mol L ⁻¹ , th	en the correct option	n for its K _a at the same	e temperature is:	
	(1) 1 × 10 ⁻⁴	(2) 1 × 10 ⁻⁶	□ (3) 1 × 10 ⁻⁵	(4) 1 × 1	10 ⁻³
Ans.	(3) Ed	ucating for better tomorrow			
Sol.	HA ⊂ H⁺ + A [.]				
	C 0 0				
	0 0				

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69.	The correct option in which the density of argon (1) STP (2) 0° C 2 atm	(Atomic mass = 40) is highest: (3) 0° C 4 atm (4) 273°C 4 atm
Ans.	(1) 011 (2) 0 0,2 attri	
Sol.	density max – at \uparrow P & \downarrow Temp/	
70	Which of the following is correctly matched:	
70.	(1) Provides \Rightarrow In Ω_{2} K Ω_{2} Sp Ω_{2}	(2) Natural exides $\rightarrow CO NO_{2} N_{2}O$
	(1) Basic Oxides \Rightarrow III ₂ O ₃ , K ₂ O, SIIO ₂	(2) Natural oxides \Rightarrow CO,NO ₂ ,N ₂ O
Res	(3) ACIDIC OXIDES \Rightarrow MIN ₂ O ₇ , SO ₂ , TEO ₃	(4) Amphotenc oxides \Rightarrow BeO,Ga ₂ O ₃ ,GeO
Ans. Sol.	(3) Basic oxide – In ₂ O ₃ , k ₂ O, SnO ₂ (amphoteric) Neutral oxide – CO, NO ₂ (acidic). N ₂ O ₃	
	Acidic oxide $-$ Mn ₂ O ₇ , SO ₂ , TeO ₃ (all are acidic) Amphoteric oxide $-$ BeO, Ga ₂ O ₃ , GeO(acidic)	
74	Which of the following is a positively observed col	ng for better tomo
Res	(1) Mothulana blue col	(2) Congo red col
	(1) wethylene blue sol	(2) Congo rea sol (4) Sh S, and
Anc		
Ans.	(I) Resitively shared call And Mathyland blue call	
501.	Positively charged sol \rightarrow Methylene blue sol	sol ShaSa sol
	Negatively charged sol -> Congo red sol, silver	
72	Match List – Lwith List – II	
Res	list_I	
	(Mixtures / Sample) (Techni	ique used for purification)
	(A) Glycerol from spent lye (i) Stear	m Distillation
	(A) Objector from spencific (i) Steal	tional distillation
	(C) Fractions of crude oil (ii) Hac	illation under reduced pressure
	(C) Applies + Water (ii) Dist	tillation
	(b) Annual water (iv) Dist	an below:
	= (1) (A) = (iii) (B) = (iv) (C) = (ii) (D) = (i)	(2) (A) = (iv) (B) = (ii) (C) = (i) (D) = (iii)
Education	(1) (A) - (ii), (B) - (iv), (C) - (ii), (D) - (i) $(3) (A) - (i), (B) - (ii), (C) - (iii), (D) - (iv)$	(2) (A) - (iv), (B) - (ii), (C) - (i), (D) - (ii) (4) (A) - (i), (B) - (iii), (C) - (ii), (D) - (iv)
Ans.		ng for bettar tomo
Sol.	Glycerol from spent lye \rightarrow Distillation under redu Chloroform + Aniline \rightarrow Distillation	iced pressure
	Aniline + water \rightarrow Steam distillation	
73.	Which amongst the following reactions of alkyl h	alides produces isonitrile as a major product?
	(A) R – X + HCN →	(B) $R - X + AgCN \rightarrow$
	(C) R − X +KC <mark>N →</mark>	(D) R – X + NaCN $\xrightarrow[C_2H_5OH]{H_2O}$
	Choose the most appropriate answer from the or	ption <mark>s g</mark> iven below:
	(1) (D) Only (2) (C) and (D) Only	(3) (B) Only (4) (A) and (B) Only
Ans.	(3)	
0.1	(a) $R - X + HCN \longrightarrow RCN + HX$	

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	(b) R – X + A	$gCN \longrightarrow R - NC + Ag$	X	
	(c) R – X + K	$CN \longrightarrow R - CN + HX$		
	(d) R–X + Na	$aCN = \frac{H_2O}{C_2H_5OH} R - CN +$	NaX "Educating for better tomorrow" Resonance" Resonance"	
	Since, in AgO	CN, covalent bond b/w A	g & CN is present Hence, only (b) produces isonitrile as major	
	product			
74.	Match List –	I with List – II		
	List – I	List	- I Resonance' Resonance'	
	(Hydride)	(Туј	be of Hydride)	
	(<mark>A) N</mark> aH	(i) E	lectron precise sonance	
	(B) PH₃	(ii) S	Saline	
	(C) GeH₄	(iii)	Metallic	
	(D) LaH _{2.87}	(iv)	Electron rich	
	Choose the c	correct answer from the	options given below:	
	(1) (A) – (iii) ,	, (B) – (iv) , (C) – (ii) , (C	(2) (A) - (ii) , (B) - (iii) , (C) - (iv) , (D) - (i)	
	(3) (A) – (i) ,	(B) – (iii) , (C) – (ii) , (D)	-(iv) (4) (A) $-(ii)$, (B) $-(iv)$, (C) $-(i)$, (D) $-(iii)$	
Ans.	(4)			
Sol.	Hydride	l ype of Hydride		
	Na⊓ PH₃	electron rich		
	GeH ₄	electron precise		
	LaH _{2.87}	metallic		
75	Which one of	f the following statemen	ts is incorrect related to Molecular Orbital Theory?	
/ 5.		The following statement		
	(1) The π^* and	tibonding molecular orb	ital has a node between the nuclei	
	(2) In the form	mation of bonding molec	cular orbital, the two electron waves of the bonding atoms reinforce	
	(2) in the formation of bonding molecular orbital, the two electron waves of the bonding atoms reinforce each other			
	(3) Molecular	r orbital obtained from 2	P_x and $2P_y$ orbitals are symmetrical around the bond axis.	
	(4) A π – bon	ding molecular orbital b	as larger electron density above and below the internuclear axis	
Ans	(3)	ang melecular erenarm		
Sol.	Molecular or	pitals obtained from 2Px	and 2Py orbitals are unsymmetrical around the bond axis.	
<mark>7</mark> 6.	An acidic buf	fer is prepared by mixin	g:	
	(1) weak acid	d and it's salt with strong) base.	
	(2) equal volu	umes of equimolar solut	ions of weak acid and weak base.	
	(3) strong ac	id and it's salt with stron	g base.	
Ano	(4) strong ac	id and it's salt with weak	t base. (The pK_a of acid = pK_b of the base)	
Ans. Sol	An acidic buf	fer is prepared by weak	acid and its salt with strong base	
001.				
7 7.	Reagents wh	hic <mark>h ca</mark> n be used to conv	vert alcohols to carboxylic acid <mark>s, a</mark> re:	
	(A) CrO ₃ -H ₂ S	SO4	(B) K ₂ Cr ₂ O ₇ +H ₂ SO ₄	
	(<mark>C) K</mark> MnO₄+ł	KOH/H3O+	I DI BILLE (D <mark>) Cu,</mark> 573 K DI BILLE SE BILLE SE BILLE	
	(E) CrO₃, (Cł	H3CO)2O		
	Choose the r	nost appropriate answ	er from the options given below:	
	(1) (B), (C) a	nd (D) only	(2) (B), (D) and (E) only	

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Ans.	(3) (A), (B) and (C) only (3)	(4) (A), (B) and (E) only	
Sol.	Regents which can be used to conve	ert alcohols to carboxylic acid are	
	• $CrO_3 - H_2SO_4 \rightarrow Jones Reagent$ • $K_2Cr_2O_7 + H_2SO_4$	sonance" Resonance"	
	• KMnO4 + KOH/ H2O+		
	(Cu,573 k) of [CrO ₃ , (CH ₃ CO) ₂ O] do	es n <mark>ot o</mark> xidise alcohol to carbo <mark>xyli</mark> c acid	
78.	Select the element (M) whose trihali	ides cannot be h <mark>ydro</mark> lysed to produce an ion of	the form [M(H ₂ O) ₆]
	(1) Ga (2) In	(3) AI (4) B	
Ans.	(4)		sonance"
Sol.	As B does not have d-orbitals, so its [M(H ₂ O) ₆] ³⁺	s trihalides cannot be hydrolysed to produce an	ion of the form
79.	The correct option for the rate law th (1) Rate = k [A] ⁰ [B] ²	nat corresponds to overall first order reaction is: (2) Rate = k [A] [B]	
	(3) Rate = k [A] ^{1/2} [B] ²	(4) Rate = k [A] ^{-1/2} [B] ^{3/2}	
Ans.	(4)		
Sol.	(1) Rate = k [A] ⁰ [B] ² , ord (2) Rate = k [A] [B] , ord	er = 2 er = 2	
		1 5	
	(3) Rate = $k[A]^{1/2}[B]^2$, ord	$er = \frac{1}{2} + 2 = \frac{3}{2}$	
	(4) Rate = $k[A]^{-1/2}[B]^{3/2}$ ord	$er = \frac{-1}{-1} + \frac{3}{-2} - \frac{2}{-2}$	
		2 2 2	
		= 1	
80.	Which amongst the following compo	ounds/species is least basic?	
	H ₂ N	H ₂ N ⊕	
	$(1) \qquad >c=0$	⁽²⁾ C-OH	
	H ₂ N	H ₂ N	
	H ₂ N	H ₂ N	
	(3) C=NH	(4) $C = \overset{\text{T}}{N} H_2$	
	H ₂ N	H ₂ N	
Ans.	(2)		
	H_2N , \oplus		
Sol.	C—OH is least basic as lon	e pair present on O is involved in delocalization	hence least availab
	H ₂ N	sonance" Resonance" (
	for donation.		
81.	Which of the following forms a set of	f a complex and a double salt, respectively?	
	(1) CuSO ₄ .5H ₂ O and CuCl ₂ .4NH ₃	(2) PtCl ₂ .2NH ₃ and PtCl ₄ .2HCl	
0-	(3) $K_2PtCl_2.2NH_3$ and $KAI(SO_4)_2.12H_3$	H_2O (4) NiCl ₂ .6H ₂ O and NiCl ₂ (H ₂ O) ₄	
Ans.		Educating for better tomorrow	
Sol.	 K₂PtCl₂.2NH₃ – Complex salt as it contains coordination entity (central metal ion Pt²⁺ with 2 lipands of NH₃) 		* with 2 ligands of (
	KAI(SO ₄) ₂ .12H ₂ O is a double salt – a	as dissociate completely into simple ion when c	lissolved in water.

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32.	Given below are two statement	s:
	Statement I: High density polythene is forme	ad in the presence of catalyst trigthylau minium and titanium tetrachloride
	Statement II:	
	High density polymers are che	emically inert. In the light of the above statements, choose the correc
	answer from the options given I	below:
	(1) Statement I is correct but S	tatement II is false.
	(2) Statement I is incorrect but	Statement II is true. Resonance Resonance
	(3) Both Statement I and State	ement II are true.
Ans	(4) Both Statement I and State	
Sol.	Both statement I & II are true	
	High density polythene is forme	ed in the presence of catalyst triethylaluminium and titanium tetrachloride
	(Ziegler-natta catalyst)	
Euocaur	ig for detail to	
3.	Which amongst the following co	ompounds will show geometrical isomerism?
	(1) Pent-1-ene (3) 2-Methylprop 1 ene	(2) 2,3-Dimethylbut-2-ene
Educatio	(3) 2-Methyprop-1-ene (4)	(4) 3,4-Dimetrymex-3-ene
	ÇH ₃ ÇH ₃	
sol.	$H_3C-CH_2-C = C-CH_2-CH_3$	
	3 4-Dimethylbex-3-epe show a	eometrical isomerism
	o, + Dimetrymex o ene snow g	sonance
4.	Given below are two statement	S. S.
	Statement I:	
	Hydrated chlorides and bromide	es of Ca, Sr and Ba on heating undergo hydrolysis.
	Statement II:	ng for better tomorrow
	Hydrated chlorides and bromide	es of Be and Mg on neating undergo denydration.
	(1) Statement L is correct but S	atatement II is false
	(2) Statement I is incorrect but	Statement II is true.
	(3) Both Statement I and State	ement II are true.
	(4) Both Statement I and State	ement II are false.
Ans.	(4)	
Sol.	Statement I :- Hydrated CI and	Br of Ca, Sr, Ba on heating undergo dehydration.
	Statement II :- Hydrated Chiori	des and Bromides of Be and Mg on heating undergo hydrolysis.
Education 85	The correct order for the rate of	$f \alpha \beta$ -dehydrohalogenation for the following compounds is
	Resonance'	Resonance" Resonance" Resonance"
	(iii)	
	Resonance [®]	
	(1) (i) < (ii) < (iii) (1)	< (i) $<$ (iii) $-$ (3) (iii) $<$ (ii) $<$ (i) $-$ (4) (ii) $<$ (iii) $<$ (i)
Ans.	(4)	(-1) (-1) (-1) (-1) (-1) (-1) (-1) (-1) (-1) (-1)
	\ /	

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Sol.	H A A A A A A A A A A A A A A A A A A A	emorrow Educating for better tomorrow Educating for better tomorrow Resonance* Resonance*
	B (T.S)	
	$\sim \sim \sqrt{\delta^{-1}}$	omorrie Educating for better fomorrow Educating for better fomorrow
		Educating for better tomorrow
		nce" Resonance" Resonance"
	δ-	
		sonance"
	δ- Ιδ-	big for better tomorrow p®
	(T S)	
	As T.s and product stability is o	comparable the order of dehydrohologenation is the order of stability o
	alkene formed.	
86.	How many number of tetrahedr	al voids are formed in 5 mol of a compound having cubic close packe
	(1) 1.550×10^{24} (2) 3.0^{27}	11 × 10^{25} (3) 3.011 × 10^{24} (4) 6.022 × 10^{24}
Ans. Sol	(4)	ther of atoms in CCP
Dos	Z = 4 for CCP	ng for better tomorrow
	4 atoms \rightarrow 8 td void 1 atoms \rightarrow 2 td void	
	for 5 mole number of Td void	= 5 x 2 N _A atoms
		$= 10 \times 6.023 \times 10^{23}$ = 6.023 × 10 ²⁴
97	Type of icomprism exhibited by	
07.	$[Cr(H_2O)_6]Cl_3, [Cr(H_2O)_5Cl]Cl_2.F$	I_2O , [Cr(H ₂ O) ₄ Cl ₂]Cl.2H ₂ O and the value of coordination number (CN) c
	central metal ion in all these cor (1) Geometrical isomerism CN-	mpounds, respectively is: -2 (2) Optical isomerism, CN-4
	(3) Ionisation isomerism, $CN=4$	(4) Solvate isomerism, CN=6
Ans. Sol.	(4) Solvate isomerism, Coordinatio	n Number =6 Resonance Resonance
	The no. of water molecules pres Coordination number = 6	sent in coordination sphere & in ionization sphere is different
88.	The correct sequence given	below containing neutral, acidic, basic and amphoteric oxide each
	(1) NO,ZnO, CO ₂ , CaO	ale in the later of the later o
		(4) NO.CO ₂ , CaO, ZnO
Ans.	(3) NO,CO ₂ , Zh <mark>O,</mark> CaO	('),,,

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	$(i) \overset{(i)}{K^{+}} \overset{(i)}{C} \overset{(i)}{N^{+}} \overset{(i)}{C} $	
	acid hydro	blysed
		(HVZ)
		Br ₂ / redphoplo
		↓ Br
93.	Given below are two statements:	
	Statement I:	rata in apposite directions, the
	inductive effect predominates.	rate in opposite directions, the
	Statement II:	
	Hyperconjugation is observed in o-xylene. In the light of the above statem	ents, choose the correct answe
	from the options given below:	
	(1) Statement I is true but Statement II is false.	
	(2) Statement I is faise but Statement II is true.	
	 (2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false 	
Ans.	 (2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false. (2) 	
Ans. Sol.	 (2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false. (2) Statement-I is false Inductive effect weakest effect and permanent estrongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it's working when reagent coming to near the strongest and temporary effect it	affect but electromeric effect is r substrate this effect dominen
Ans. Sol.	 (2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false. (2) Statement-I is false Inductive effect weakest effect and permanent estrongest and temporary effect it's working when reagent coming to nead due to πe shifting during Rxⁿ takes place. 	affect but electromeric effect is r substrate this effect dominen
Ans. Sol.	 (2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false. (2) Statement-I is false Inductive effect weakest effect and permanent estrongest and temporary effect it's working when reagent coming to near due to πe shifting during Rxⁿ takes place. Statement -II is true 	affect but electromeric effect is r substrate this effect dominen
Ans. Sol.	 (2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false. (2) Statement-I is false Inductive effect weakest effect and permanent estrongest and temporary effect it's working when reagent coming to nead due to πe⁻ shifting during Rxⁿ takes place. Statement -II is true 	effect but electromeric effect is in substrate this effect dominen
Ans. Sol.	 (2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false. (2) Statement-I is false Inductive effect weakest effect and permanent estrongest and temporary effect it's working when reagent coming to nead due to πe⁻ shifting during Rxⁿ takes place. Statement -II is true 	effect but electromeric effect is in substrate this effect dominen
Ans. Sol.	(2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false. (2) Statement-I is false Inductive effect weakest effect and permanent estrongest and temporary effect it's working when reagent coming to near due to πe^{-} shifting during Rx ⁿ takes place. Statement -II is true αSP^{3} αCH_{3} SP^{2}	effect but electromeric effect is ir substrate this effect dominen
Ans. Sol.	 (2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false. (2) Statement-I is false Inductive effect weakest effect and permanent estrongest and temporary effect it's working when reagent coming to nead due to πe shifting during Rxⁿ takes place. Statement -II is true 	effect but electromeric effect is in substrate this effect dominen
Ans. Sol.	(2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false. (2) Statement-I is false Inductive effect weakest effect and permanent estrongest and temporary effect it's working when reagent coming to near due to πe^{-} shifting during Rx ⁿ takes place. Statement -II is true SP^{3} $\alpha^{2}CH_{3}$ SP^{2} $\alpha^{2}CH_{3}$ SP ³ $\alpha^{2}CH_{3}$ SP ³ $\alpha^{2}CH_{3}$ SP ³ $\alpha^{2}CH_{3}$ SP ³ $\beta^{2}CH_{3}$ SP ³	effect but electromeric effect is ir substrate this effect dominen
Ans. Sol.	(2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false. (2) Statement-I is false Inductive effect weakest effect and permanent estrongest and temporary effect it's working when reagent coming to near due to πe^{-} shifting during Rx ⁿ takes place. Statement -II is true $\alpha _{CH_3}^{SP^3}$ $\alpha _{CH_3}^{CH_3}$ $SP^2 \int_{SP^2}^{\alpha _{CH_3}} SP^3$	effect but electromeric effect is in substrate this effect dominen
Ans. Sol. Res	(2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false. (2) Statement-I is false Inductive effect weakest effect and permanent estrongest and temporary effect it's working when reagent coming to near due to πe shifting during Rx ⁿ takes place. Statement -II is true $\alpha CH_3 SP^3$ $\alpha CH_3 SP^2$ $\alpha CH_3 SP^3$ $\alpha CH_3 SP^2$ $\alpha CH_3 SP^3$ $\alpha CH_3 SP^$	effect but electromeric effect is in substrate this effect dominen
Ans. Sol. Res Res	(2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false. (2) Statement-I is false Inductive effect weakest effect and permanent estrongest and temporary effect it's working when reagent coming to near due to πe^{-} shifting during Rx ⁿ takes place. Statement -II is true $\alpha CH_3 SP^3 \qquad \alpha CH_3 SP^3$ $\alpha carbon have 3 \alpha hydrogen which show hyper conjugation$	effect but electromeric effect is in substrate this effect dominen
Ans. Sol.	(2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false. (2) Statement-I is false Inductive effect weakest effect and permanent estrongest and temporary effect it's working when reagent coming to neadue to πe^{-} shifting during Rx ⁿ takes place. Statement -II is true αCH_3 $SP^2 \qquad \alpha CH_3 SP^3$ $\alpha carbon have 3 \alpha hydrogen which show hyper conjugation The correct option for a redex couple is:$	effect but electromeric effect is in substrate this effect dominen
Ans. Sol.	(2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false. (2) Statement-I is false Inductive effect weakest effect and permanent estrongest and temporary effect it's working when reagent coming to near due to πe^{-} shifting during Rx ⁿ takes place. Statement -II is true αCH_3 SP^3 αCH_3 SP^2 $\alpha CH_3 SP^2$ $\alpha CH_3 SP^2$ $\alpha CH_3 SP^3$ $\alpha CH_3 SP^2$ $\alpha CH_3 SP^3$ $\alpha CH_3 SP^2$ $\alpha CH_3 SP^3$ $\alpha CH_3 SP^2$ $\alpha CH_3 SP^3$ $\alpha CH_3 SP^3$	effect but electromeric effect is in substrate this effect dominen
Ans. Sol.	 (2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false. (2) Statement-I is false Inductive effect weakest effect and permanent estrongest and temporary effect it's working when reagent coming to nead due to πe⁻ shifting during Rxⁿ takes place. Statement -II is true SP³ CH₃ SP² SP² CH₃ SP² a carbon have 3 α hydrogen which show hyper conjugation The correct option for a redox couple is: (1) Both are oxidised forms involving same element. 	effect but electromeric effect is r substrate this effect dominen
Ans. Sol.	 (2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false. (2) Statement-I is false Inductive effect weakest effect and permanent estrongest and temporary effect it's working when reagent coming to nead due to πe⁻ shifting during Rxⁿ takes place. Statement –II is true SP³ CH₃ SP² SP² CH₃ SP² SP² CH₃ SP³ CH₃ CH₃ SP² SP² CH₃ SP² CH₃ SP² CH₃ SP² CH₃ SP² SP² SP² CH₃ SP² SP² SP² SP² SP³ CH₃ SP² SP² SP³ CH₃ SP² SP² SP² SP³ CH₃ SP² SP² SP³ CH₃ SP² SP² SP³ SP³ SP² SP³ 	effect but electromeric effect is in substrate this effect dominen
Ans. Sol.	 (2) Statement I is false but Statement II is true. (3) Both Statement I and Statement II are true. (4) Both Statement I and Statement II are false. (2) Statement-I is false Inductive effect weakest effect and permanent estrongest and temporary effect it's working when reagent coming to nead due to πe⁻ shifting during Rxⁿ takes place. Statement -II is true SP³ CH₃ SP² CH₃ SP² CH₃ SP² CH₃ SP² CH₃ SP² The correct option for a redox couple is: (1) Both are oxidised forms involving same element. (2) Both the reduced and oxidized forms involve same element. (3) Both the reduced and oxidized forms involve same element. 	effect but electromeric effect is in substrate this effect dominen

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Educ		NEET (UG) 2023 DATE : 06-06-2023 CHEMISTRY				
Sol.	it is a disproporation reaction.					
95.	Given below are two statements: one is	abelled as Assertion (A) and the other is labelled as Reason				
	(R)					
	Assertion (A):					
	Ionisation enthalpies of early actinoids are	e lower than for early lanthanoids				
	Reason (R):	Educating for better tomorrow				
	Electrons are entering 5f orbitals in acting	oids which experience greater shielding from nuclear charge.				
	In the light of the above statements, choo	se the correct answer from the options given below:				
	(1) (A) is true but (R) is false.	Resonance' Resonance'				
	(2) (A) is false but (R) is true.					
	(3) Both (A) and (R) are true and (R) is th	e correct explanation of (A).				
	(4) Both (A) and (R) are true but (R) is no	t the correct explanation of (A).				
Ans.	es (3) en					
Sol.	Both (A) & (R) are true and (R) is the cor	rect explanation of (A) the ionisation enthalpies of the actinoids				
	a <mark>re lo</mark> wer than that of the lanthanoids espe	ecially in case of early metals due to the more effective shielding				
	o <mark>f 5f e⁻ than 4f e⁻</mark>					
96.	Consider the following reaction:					
	$2H_2(g) + O_2(g) \rightarrow 2H_2O(g) \Delta_r H^\circ = -483.64$	kJ. What is the enthalpy change for decomposition of one mole				
	of water? (Choose the right option).					
	(1) 120.9 kJ (2) 241.82 kJ	(3) 18 kJ (4) 100 kJ				
Ans.	(2)					
Sol.	241.82kj given Rx ⁿ	ng for better tomorrow				
	(1) $2H_{2(ag)} + O_{2(g)} \rightarrow 2H_2 O_{(g)} \Delta_r H^\circ = -483$	(1) $2H_{2(ag)} + O_{2(g)} \rightarrow 2H_2 O_{(g)}\Delta_r H^\circ = -483.64$ kj change in enthalpy for reaction of water i.e.				
	(2) $2H_2O_{(g)} \rightarrow 2H_{2(g)} + O_{2(g)}\Delta_dH = -\Delta_rH^\circ$	for water decomposition two mole.				
		1 male water decomposition				
	(3) $2\Pi_2 O_{(g)} \rightarrow \Pi_{2(g)} + 2O_{2(g)} \Delta_d \Pi$	Those water decomposition				
	Eq(2) = Eq(2)					
	$Lq(3) = \frac{1}{2}$					
	−∆rH°					
	=					
	483.64					
	$=+\frac{1}{2}kj$					
	$\sqrt{-4}$.H = 241.82ki/mol					
	esonar					
6ducati 07	Which statement is not true about photoc	hemical smoot				
51.	(1) Photochemical smog is harmful to hur	nans but has no effect on plants				
	(2) Plants like Pinus. Juniparus can help in reducing the photochemical smog					
	(2) Photochemical smoot occurs in warm	dry and suppy climate				
	(4) Common components of photochemi	ical smog are ozone, nitric oxide, acrolein, formaldebyde and				
	peroxyacetyl nitrate					
Ans	(1)					
Sol	Not true statement about photochemical	Smog verting for better temorrow				
	(i) Photochemical is harmful to humans h	ut has no effect on plant				
	Photochemical Smog is harmful to human	is a well as plant specially ozone is most toxic in photochemical				
	smog.					

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