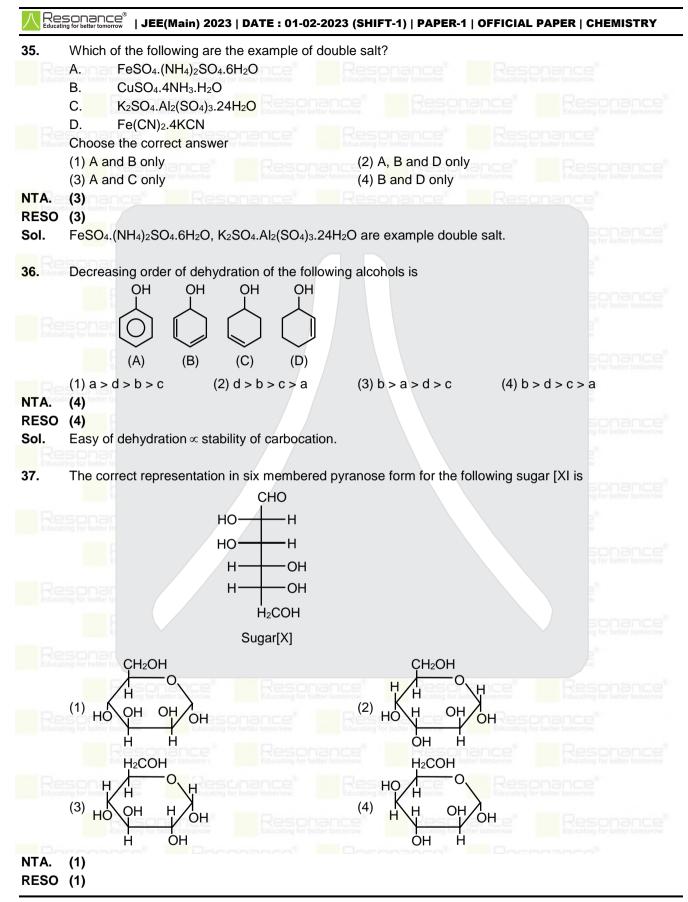


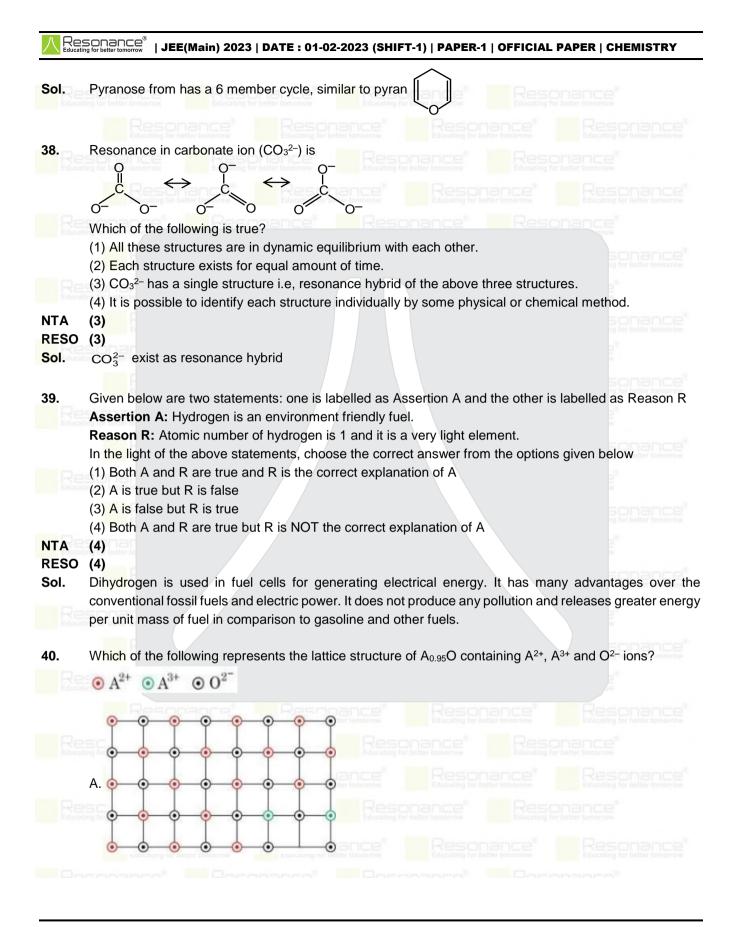
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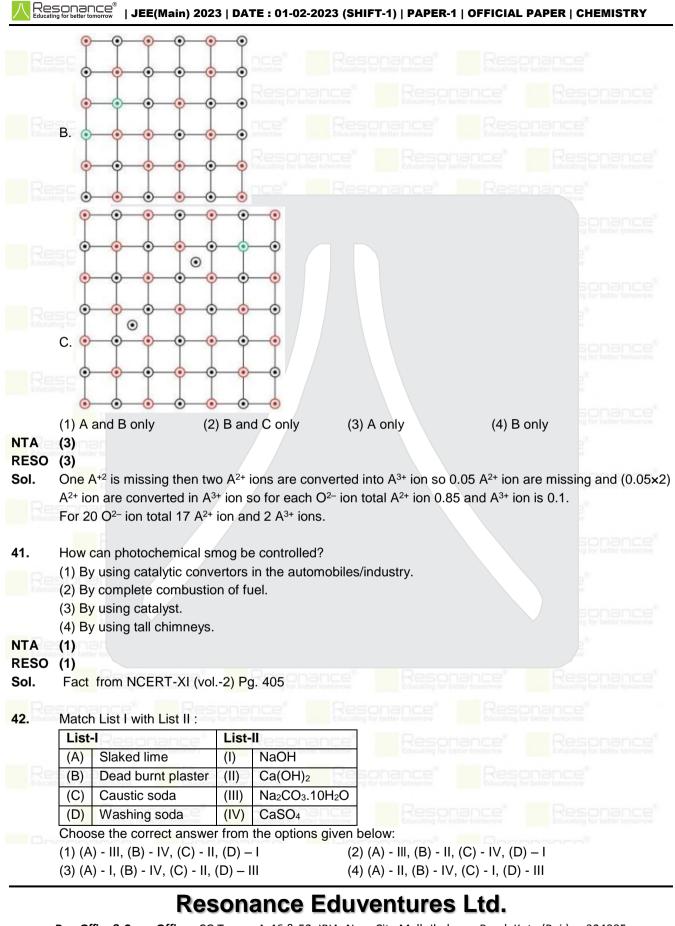
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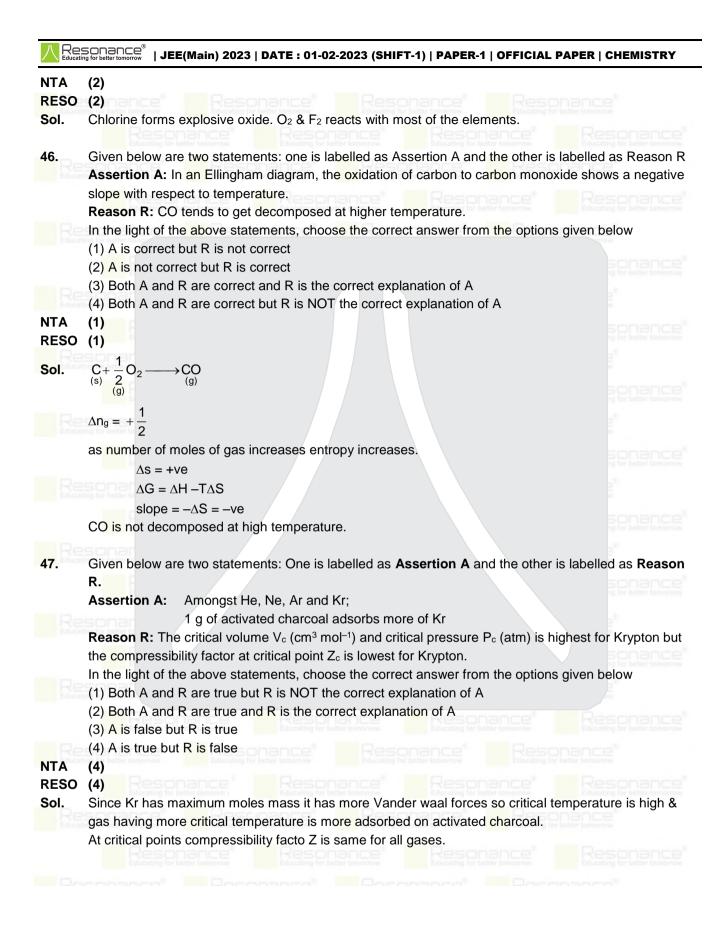


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and the second sec	(1) (1) nance [®] Resonance [®] Resonance [®] Resonance [®] Resonance [®]						
Sol.	Claire d Line e		nea" Resonance"				
	Slaked Lime	Ca(OH) ₂	emotroy Educating for better temorrow				
	Caustic Soda	NaOH	Resonance [®] Resona				
	Washing Soda	Na ₂ CO ₃ .10H ₂ O	Educating for better tomorrow Educating for better				
	Dead Burnt Plaster	CaSO ₄	CONTRACT Resonance"				
43. Re	Match List I with List	Resonance*					
Educati	List-I	List-II					
	(A) Tranquilizers	(I) Anti blood clottin	uq la				
	(B) Aspirin	(II) Salvarsan	.9				
	(C) Antibiotic	(III) antidepressant of	trugs				
	(D) Antiseptic	(IV) soframicine					
		nswer from the options	given below:				
	(1) (A) - II, (B) - IV, (C		(2) (A) - IV, (B) - II, (C) - I, (D) – II				
	(3) (A) - III, (B) - I, (C)	, , ,	(4) (A) - II, (B) - I, (C) - III, (D) - IV				
ΝΤΑ	(3) (3) (3)) 11, (D) 11					
	(3)						
Sol.	Based on fact given in	n NCERT					
NTA	 (B) Mn is octahedrally (C) Contains Mn-O-M (D) Contains Mn-Mn I 	7	atoms.	D only			
Sol.	Mn ₂ O ₇						
	sp ³ H	Hybridisation					
		trahedr <mark>al</mark>					
45. Re	to explode Statement II: Chemic	e can easily combine wi	th oxygen to form oxides; and the prod	Resonance			
	halogens.						
	In the light of the above statements, choose the correct answer from the options given below						
	 (1) Both the Statements I and II are false (2) Both the Statements I and II are true 						
			Onennanco" Onenna				
	. ,	se but Statement II is tru e but Statement II is fals					
		e our Statement II is fais					

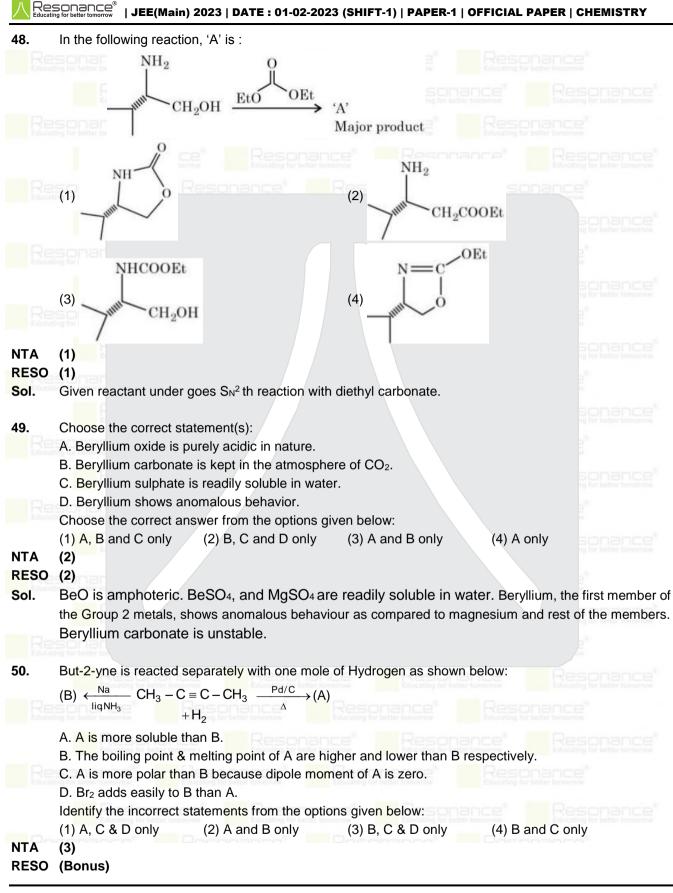
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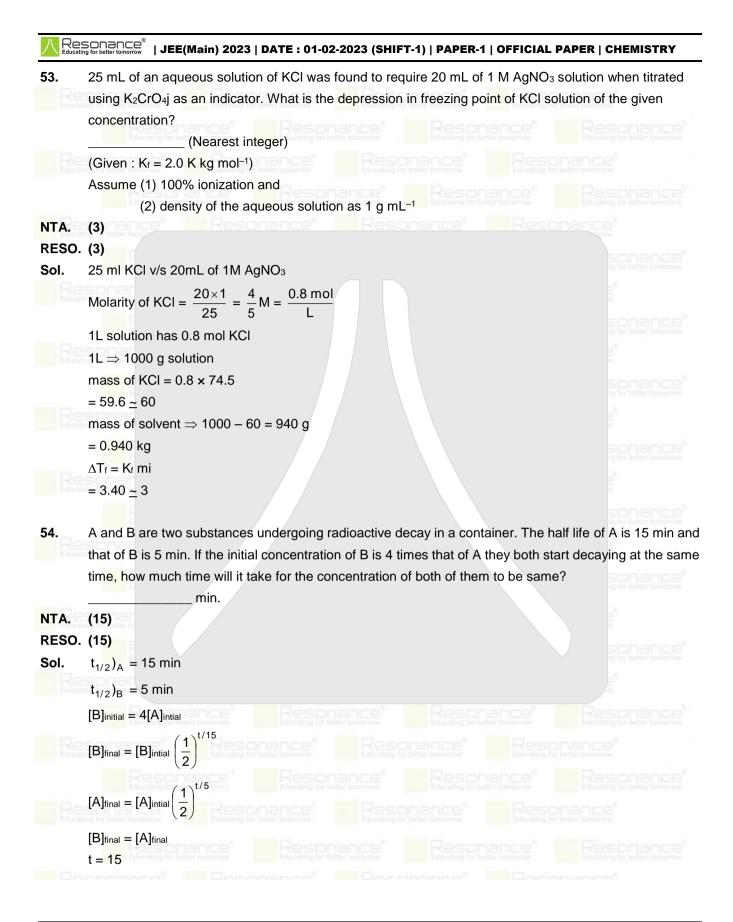
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	Physical properties	H_3C $C = C$ H_3C	H_3C $C = C$	Hundricating CH3 CH3 How Resond	Remark	s Resonance
		Β μ=0	A A µ≠0	Resonance [®]		
	D <mark>ipol</mark> e moment	hance better temorrow	A > B	cis-isomer has trans isomer di		dipoles while in ts cancel out
	Boiling point		A > B		point due to la	oole moment have arger intermolecule
	Solubility (in H ₂ O)		A > B	More polar mol	ecules are m	nore soluble in H ₂ O
	Melting point		B > A	points due to b	etter packing	ive higher melting i in crystalline lattice ymmetric than cis.
	Th <mark>e co</mark> rrect a	nswer should	be (C) and (D) or	nly.		sonance
NTA.	(Nearest integr Given: Molar n (364) . (364)	er). nass of Na and		5 g mol ⁻¹ respectively .		
NTA. RESO.	(Nearest integr Given: Molar n (364) (364) Molality(m) =	er). nass of Na and <u>M×1000</u> 1000×d−M×N	d CI is 23 and 35.5			
NTA. RESO.	(Nearest integr Given: Molar n (364) (364) Molality(m) = - = (= 3	er). nass of Na and	$\frac{1}{4}$ CI is 23 and 35.5 $\frac{1}{A_{\text{solute}}}$			
NTA. RESO. Sol. 52.	(Nearest integr Given: Molar n (364) (364) Molality(m) = - = (= 3 = 3 Sum of oxidati (12)	er). hass of Na and $M \times 1000$ $1000 \times d - M \times M$ 3×1000 $1000 \times 1 - 3 \times 5$.6386 m 63.86×10^{-2} m	$\frac{1}{4}$ CI is 23 and 35.5 $\frac{1}{A_{solute}}$ $\frac{1}{58.5}$			
NTA. RESO. Sol. 52. NTA. RESO.	(Nearest integr Given: Molar n (364) (364) Molality(m) = - = (= 3 = 3 Sum of oxidati (12)	er). hass of Na and $M \times 1000$ $1000 \times d - M \times M$ 3×1000 $1000 \times 1 - 3 \times 5$.6386 m 63.86 × 10^{-2} m on states of brown	$\frac{1}{4}$ CI is 23 and 35.5 $\frac{1}{A_{solute}}$ $\frac{1}{58.5}$	5 g mol ⁻¹ respectively .	is	
NTA. RESO. Sol. 52. NTA. RESO.	(Nearest integration of excitation of excit	er). hass of Na and $M \times 1000$ $1000 \times d - M \times M$ 3×1000 $1000 \times 1 - 3 \times 5$.6386 m 63.86 × 10^{-2} m on states of brown promic acid P = 0	$\frac{1}{4}$ CI is 23 and 35.5 $\frac{1}{A_{solute}}$ $\frac{1}{58.5}$	5 g mol ⁻¹ respectively .	is	
NTA. RESO. Sol. 52. NTA. RESO.	(Nearest integr Given: Molar n (364) (364) Molality(m) = $-$ = (= 3 = 3 Sum of oxidati (12) (12) HBrO ₄ \rightarrow Perb (+1) + x + 4(-2) x = +7	er). hass of Na and $M \times 1000$ $1000 \times d - M \times M$ 3×1000 $1000 \times 1 - 3 \times 5$.6386 m 63.86 $\times 10^{-2}$ m on states of brown promic acid 2) = 0 hic acid	$\frac{1}{4}$ CI is 23 and 35.5 $\frac{1}{A_{solute}}$ $\frac{1}{58.5}$	5 g mol ⁻¹ respectively .	is	
51. NTA. RESO. Sol. 52. NTA. RESO. Sol.	(Nearest integr Given: Molar n (364) (364) Molality(m) = $-$ = (= 3 = 3 Sum of oxidati (12) (12) HBrO ₄ \rightarrow Perb (+1) + x + 4(-2) x = +7 HBrO ₃ \rightarrow Bron (+1) + x + 3(-2) x = +5	er). hass of Na and $M \times 1000$ $1000 \times d - M \times M$ 3×1000 $1000 \times 1 - 3 \times 5$.6386 m 63.86 × 10^{-2} m on states of brown promic acid P = 0 hic acid P = 0	$\frac{1}{4}$ CI is 23 and 35.5 $\frac{1}{A_{solute}}$ $\frac{1}{58.5}$	5 g mol ⁻¹ respectively .	is	

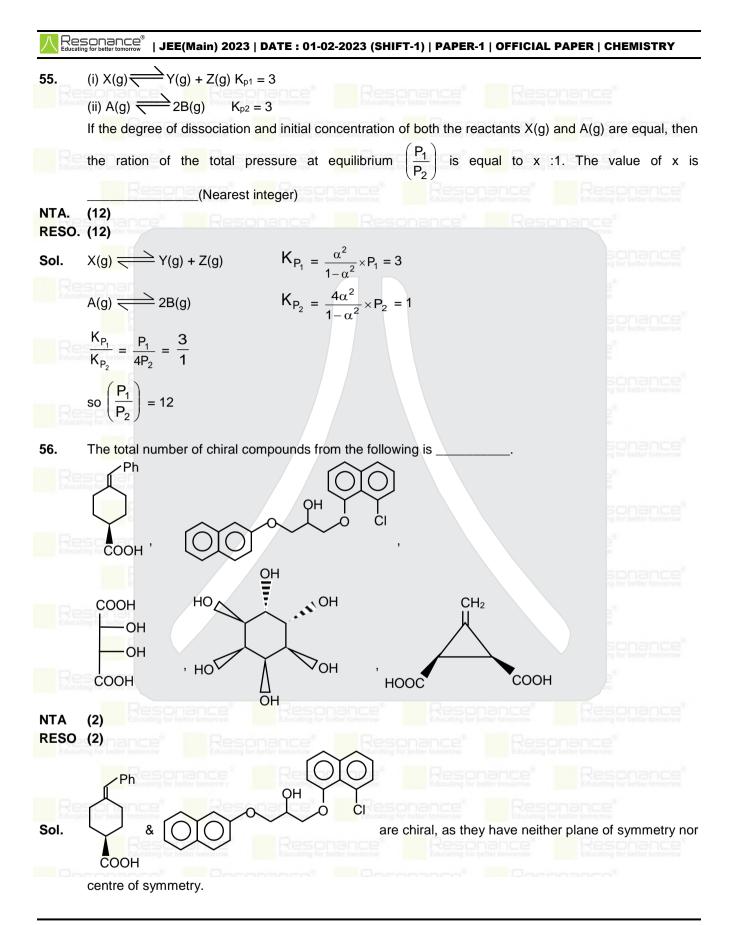
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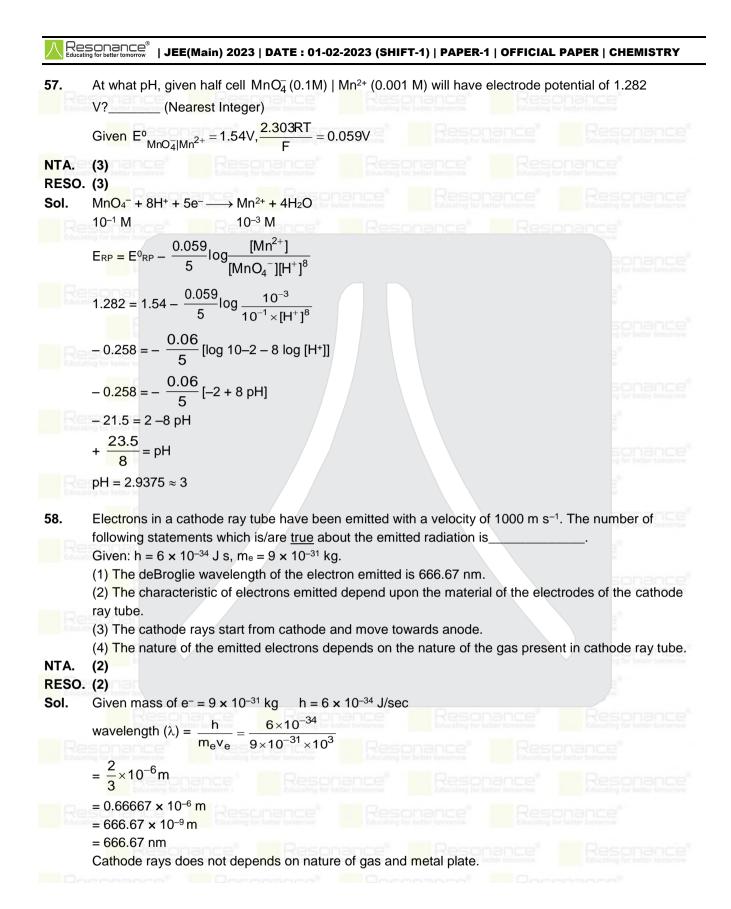
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59.	At 25°C, the enthalpy	of the following pro	cesses are giver	n:				
Re	$H_2(g) + O_2(g)$ $2OH(g)$ $\Delta H^0 = 78 \text{ kJ mol}^{-1}$							
	$H_2(g) + \frac{1}{2}O_2(g) \rightarrow$							
	H ₂ (g)							
	$\frac{1}{2}O_2(g) \rightarrow O(g) \Delta H^0 = 249 \text{ kJ mol}^{-1}$							
	What would d be the value of X for the following reaction?							
	(Nearest integer)	References Loss Loss References Loss Loss References Loss Loss References Loss References Loss References Refe						
	$H_2O(g) \rightarrow H(g) + OH(g)$	$J) \Delta H^{\circ} = KJ MOI^{-1}$						
NTA.	(499)							
RESO. Sol.	$H_2O(g) \rightarrow H(g) + OH(g)$	$h = k \rfloor mol^{-1}$						
Sol.	$2H_2O \rightarrow 2H_2 + O_2$		484					
	$H_2 + O_2 \rightarrow 2OH$		-0-1					
	$2H_2O \rightarrow H_2 + 2OH$							
	$H_2 \rightarrow 2H$	$\Delta H = 436$						
	$2H_2O \rightarrow 2H + 2OH$							
	$H_2O \rightarrow H + OH$	$\Delta H = 499$						
60.	Number of isomeric c	ompounds with mol	ecular formula C	₉ H ₁₀ O which				
	(i) do not dissolve in N							
	(ii) do not dissolve in l							
	(iii) do not give orange							
Re	(iv) on hydrogenation	give identical comp	ound with molec	ular formula C ₉ ł	H ₁₂ O is			
NTA	(2)							
RESO	• •							
Sol.	(A) C ₉ H ₁₀ O $\xrightarrow{H_2/Pd}$							
	ating for better to	U = 4						
	Observation: aromatic No reaction with NaO							
	Not soluble in HCI \Rightarrow		group					
	No reaction with NaO		vde aroun					
	No reaction with 2,4-E							
		•		H10 O .				
	Therefore only unsatu			-		ng for better tomorrow		
	Therefore only unsatu					$ \land \land$		
	Therefore only unsatu $C_9H_{12}O \longrightarrow $					$\sim 0 \sim$		
				Jo~~		\sim_0		
	$C_9H_{12}O \longrightarrow \bigcirc$							
	$C_9H_{12}O \longrightarrow \bigcirc$							
	$C_9H_{12}O \longrightarrow \bigcirc$							
	$C_9H_{12}O \longrightarrow \bigcirc$					Icating for better tomorrow		
	$C_{9}H_{12}O \longrightarrow \bigcirc \\ 3 \rightarrow O$					Including for better tomorrow		
	$C_{9}H_{12}O \longrightarrow \bigcirc \\ 3 \rightarrow O$					Including for better tomorrow		

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