


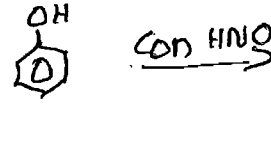
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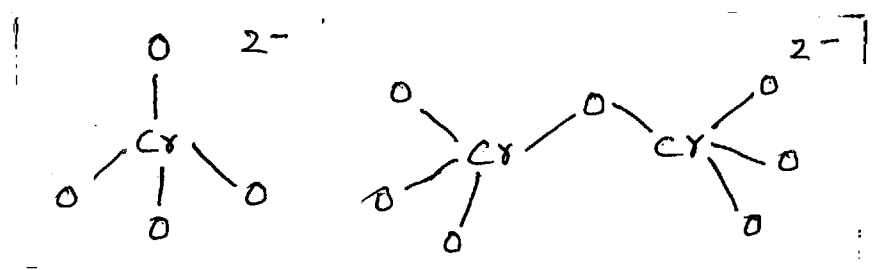

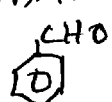

ANSWER KEYSECOND YEAR HIGHER SECONDARY EXAMINATION March 2022

PART-I/II/III

SUBJECT: CHEMISTRY (HI)CODE NO: SY ~~264~~ 564VERSION: R60 SCORES2 HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score						
1		2	1	1						
2		+3	1	1						
3		monodentate	1	1						
4		$\text{CHCl}_3$	1	1						
5		$2^\circ$	1	1						
6		Statement / equation	2	2						
7		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">ideal solution</td> <td style="text-align: center;">non ideal solution</td> </tr> <tr> <td style="text-align: center;"><math>\Delta H_{\text{mix}} = 0</math></td> <td style="text-align: center;"><math>\Delta_{\text{mix}} H \neq 0</math></td> </tr> <tr> <td style="text-align: center;"><math>\Delta_{\text{mix}} V = 0</math></td> <td style="text-align: center;"><math>\Delta_{\text{mix}} V \neq 0</math></td> </tr> </table>	ideal solution	non ideal solution	$\Delta H_{\text{mix}} = 0$	$\Delta_{\text{mix}} H \neq 0$	$\Delta_{\text{mix}} V = 0$	$\Delta_{\text{mix}} V \neq 0$	1 1	2
ideal solution	non ideal solution									
$\Delta H_{\text{mix}} = 0$	$\Delta_{\text{mix}} H \neq 0$									
$\Delta_{\text{mix}} V = 0$	$\Delta_{\text{mix}} V \neq 0$									
8		anode - Cu cathode - Ag	1 1	2						
9		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">order</td> <td style="text-align: center;">molecularity</td> </tr> <tr> <td style="text-align: center;">can be zero</td> <td style="text-align: center;"><u>can not be zero</u></td> </tr> <tr> <td style="text-align: center;"><u>can be a fraction</u></td> <td style="text-align: center;">can not be a fraction</td> </tr> </table>	order	molecularity	can be zero	<u>can not be zero</u>	<u>can be a fraction</u>	can not be a fraction	1 1	2
order	molecularity									
can be zero	<u>can not be zero</u>									
<u>can be a fraction</u>	can not be a fraction									
10		Definition	2	2						

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score												
11		<table border="1"> <tr> <th>Geometrical isomer</th> <th>Name of isomer</th> </tr> <tr> <td> <math display="block">\begin{array}{c} \text{Cl} \quad \text{NH}_3 \\ \diagdown \quad / \\ \text{Pt} \\ / \quad \diagdown \\ \text{Cl} \quad \text{NH}_3 \end{array}</math> </td> <td><u>cis</u></td> </tr> <tr> <td> <math display="block">\begin{array}{c} \text{Cl} \quad \text{NH}_3 \\ \diagdown \quad / \\ \text{Pt} \\ / \quad \diagdown \\ \text{NH}_3 \quad \text{Cl} \end{array}</math> </td> <td><u>trans</u></td> </tr> </table>	Geometrical isomer	Name of isomer	$\begin{array}{c} \text{Cl} \quad \text{NH}_3 \\ \diagdown \quad / \\ \text{Pt} \\ / \quad \diagdown \\ \text{Cl} \quad \text{NH}_3 \end{array}$	<u>cis</u>	$\begin{array}{c} \text{Cl} \quad \text{NH}_3 \\ \diagdown \quad / \\ \text{Pt} \\ / \quad \diagdown \\ \text{NH}_3 \quad \text{Cl} \end{array}$	<u>trans</u>	1 1	2						
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$\begin{array}{c} \text{Cl} \quad \text{NH}_3 \\ \diagdown \quad / \\ \text{Pt} \\ / \quad \diagdown \\ \text{NH}_3 \quad \text{Cl} \end{array}$	<u>trans</u>															
12		Reason	2	2												
13		<p>i)  / Name</p> <p>ii)  / Name</p>	1 1	2												
14		Definition   equation	2	2												
15	a	c	1	2												
	b	Glucose	1													
16		<table border="1"> <tr> <th>Primary Battery</th> <th>Secondary Battery</th> </tr> <tr> <td>Can not recharge</td> <td>Can recharge</td> </tr> <tr> <td>Can not reuse</td> <td>Can reuse</td> </tr> <tr> <td>Dry cell</td> <td>Lead storage cell / any other example</td> </tr> </table>	Primary Battery	Secondary Battery	Can not recharge	Can recharge	Can not reuse	Can reuse	Dry cell	Lead storage cell / any other example	1 1 1	3				
Primary Battery	Secondary Battery															
Can not recharge	Can recharge															
Can not reuse	Can reuse															
Dry cell	Lead storage cell / any other example															
17		<table border="1"> <tr> <th>Reaction</th> <th>Order</th> <th>Unit of Rate constant</th> </tr> <tr> <td>zero order</td> <td><u>0</u></td> <td><math>\text{mol L}^{-1} \text{s}^{-1}</math></td> </tr> <tr> <td>First order</td> <td>1</td> <td><u><math>\text{s}^{-1}</math></u></td> </tr> <tr> <td>Second order</td> <td>2</td> <td><math>\text{mol}^{-1} \text{L s}^{-1}</math></td> </tr> </table>	Reaction	Order	Unit of Rate constant	zero order	<u>0</u>	$\text{mol L}^{-1} \text{s}^{-1}$	First order	1	<u><math>\text{s}^{-1}</math></u>	Second order	2	$\text{mol}^{-1} \text{L s}^{-1}$	1 1 1	3
Reaction	Order	Unit of Rate constant														
zero order	<u>0</u>	$\text{mol L}^{-1} \text{s}^{-1}$														
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Q.No	Sub Qns	Answer Key/Value Points	Score	Total Score
18	a	Definition	2	3
	b	$\frac{0.693}{k}$	1	
19		 chromate ion      dichromate ion one <u>tetrahedra</u> two tetrahedra yellow colour, <u>orange</u> colour	1 1 1	3
20		i) 4 ii) 6 iii) 6	1 1 1	3
21	a	$\text{CH}_3\text{-O-CH}_3$	1	3
	b	Definition / equation / use	2	
22	a	i)  / name	1	3
		ii) $\text{CH}_2=\text{CH}_2$ / name	1	
	b	$\text{CH}_3\text{CH}_2\text{OH}$	1	
23	a	ketone	1	3
	b	Definition / equation / use	2	
24	a	i)  / name	1	3
		ii)  / name	1	
	b	Etard Reaction	1	

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Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score								
25		I - C II - A III - B	1 1 1	3								
26		<table border="1"> <tr> <td>Bio molecules</td> <td>linkage</td> </tr> <tr> <td>starch</td> <td>glycosidic</td> </tr> <tr> <td>protein</td> <td>peptide</td> </tr> <tr> <td>nucleic acid</td> <td>phospho diester</td> </tr> </table>	Bio molecules	linkage	starch	glycosidic	protein	peptide	nucleic acid	phospho diester	1 1 1	3
Bio molecules	linkage											
starch	glycosidic											
protein	peptide											
nucleic acid	phospho diester											
27	a b c	molarity Definition Any two colligative property name	1 1 2	4								
28	a b	Anode reaction / oxidation cathode reaction / Reduction Definition / equation	1 1 2	4								
29		I - D II - B III - A IV - C	1 1 1 1	4								
30	a b	i) Cl ii) Br Definition / equation	1 1 2	4								

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score				
31	a	i) $\begin{array}{c} \text{CH}_2\text{-COOH} \\   \\ \text{Cl} \end{array}$ / name ii) $\begin{array}{c} \text{COOH} \\   \\ \text{C}_6\text{H}_4 \\   \\ \text{NO}_2 \end{array}$ / Name	1 1					
	b	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">Aldol condensation dil. NaOH</td> <td style="width: 50%; padding: 5px;">Cannizzaro Reaction con. NaOH</td> </tr> <tr> <td style="padding: 5px;">Carbonyl compound with <math>\alpha</math>-hydrogen</td> <td style="padding: 5px;">Carbonyl compound without <math>\alpha</math>-hydrogen</td> </tr> </table>	Aldol condensation dil. NaOH	Cannizzaro Reaction con. NaOH	Carbonyl compound with $\alpha$ -hydrogen	Carbonyl compound without $\alpha$ -hydrogen	1 1	4
Aldol condensation dil. NaOH	Cannizzaro Reaction con. NaOH							
Carbonyl compound with $\alpha$ -hydrogen	Carbonyl compound without $\alpha$ -hydrogen							