



SECOND YEAR

Kerala Board Answer Key 2023

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ANSWER KEY

SECOND YEAR HIGHER SECONDARY EXAMINATION MARCH 2023

PART-~~II~~/III

SUBJECT: CHEMISTRY

CODE NO: 54525

VERSION: Q

60 SCORES

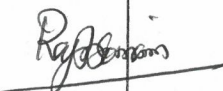
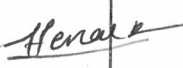
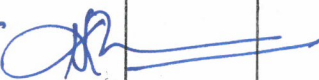
2 HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
1		$\text{mol L}^{-1} \text{s}^{-1}$	1	1
2		Ag OR Ca	1	1
3		Any 1 example	1	1
4		Finkelstein reaction	1	1
5		$\text{C}_6\text{H}_5\text{-CHO}$ OR Benzaldehyde/structure	1	1
6		Statement of Henry's law / Equation Any one application	1 1	2
7		Correct statement/conditions for ideal solution Any one example for ideal solution	1 1	2
8		$\Delta_m^\circ(\text{CH}_3\text{COOH}) = \Delta_m^\circ(\text{HCl}) + \Delta_m^\circ(\text{CH}_3\text{COONa}) - \Delta_m^\circ(\text{NaCl})$ Correct Substitution OR $\Delta_m^\circ(\text{CH}_3\text{COOH}) = 390.5 \text{ J cm}^2 \text{ mol}^{-1}$	1 1	2
9	(i) (ii)	Statement of pseudo first order reaction Any one example	1 1	2
10	(i) (ii)	Correct explanation / presence of incompletely filled d orbitals Mn	1 1	2

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
11	(a)	Tetraammine aqua bromido cobalt (III) bromide / Tetra ammine aqua bromo cobalt (III) bromide	1	2
	(b)	Potassium trioxalato aluminate (III)	1	
12		Any two differences (1+1)	2	2
13		Explanation of the manufacture of phenol / Preparation of phenol Chemical equation	1 1	2
14		Correct reason	2	2
15		Definition of oligosaccharides Any two example	1 $\frac{1}{2} + \frac{1}{2}$	2
16	(i)	Definition of molar conductivity	1	3
	(ii)	Correct graphical representation	2	
17	(i)	$t_{1/2} = \frac{0.693}{k}$ $t_{1/2} = \frac{0.693}{6.8 \times 10^{-14}}$ OR $t_{1/2} = 0.10191 \times 10^{14} \text{ s} = 1.0191 \times 10^{13} \text{ s}$	$\frac{1}{2}$	3
	(ii)	$k = \frac{2.303}{t} \log \frac{[R]_0}{[R]}$ Explanation of any two terms	1 $\frac{1}{2} + \frac{1}{2}$	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
18		Effect of temperature Effect of catalyst	1½ 1½	3
19		Explanation / Equation for the preparation of $K_2Cr_2O_7$ 3 steps 1 score for each step (1+1+1)	3	3
20	(i) (ii)	Definition of spectrochemical series Correct figure Correct labelling ($t_{2g}/e_g/\Delta_o$)	1 1 1	3
21	(i) (ii) (iii)	2,4,6-Tribromophenol / structure Benzene / C_6H_6 / structure 2,4,6-Trinitrophenol / picric acid / structure	1 1 1	3
22	(i) (ii)	Explanation / Equation Explanation / Equation	1½ 1½	3
23	(i) (ii)	Any two nucleophilic addition reactions of aldehyde / explanation / Equation Ethyl alcohol / C_2H_5-OH	1+1 1	3
24	(i) (ii)	Aldehydes Explanation / Equation of any two tests / Name of any two tests	1 1+1	3
25	(i) (ii)	Statement / Equation correct reason	1 2	3

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
26	(i) (ii)	Defemition of essential and non-essential amino acids/example Explanation of amphoteric nature	$\frac{1}{2} + \frac{1}{2}$ 2	3
27	(i) (ii) (iii)	Statement Any 2 colligative property Definition of reverse osmosis Any one practical utility	1 $\frac{1}{2} + \frac{1}{2}$ 1 1	4
28	(i) (ii) (iii)	Name of anode and Cathode Reactions at anode/equation Reactions at cathode/equation Explanation / Equation	$\frac{1}{2} + \frac{1}{2}$ 1 1 1	4
29	(i) (ii)	Correct diagrams of isomers Correct structure / geometry / hybridisation Magnetic property - Diamagnetic	1+1 1 1	4
30	(i) (ii)	Major product - But-2-ene/structure minor product - But-1-ene/structure Zaitsev rule Statement of the rule	1 1 1 1	4
31	(i) (ii) (iii)	Explanation / chemical equation Explanation / chemical equation Clem ^m ensen's reduction	2 1 1	4

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
		1. Dr. SUJAYA. G 9048892901 		
		2. ANIL. D 9447585658 		
		3. RAJESH SOMAN 8075649703 		
		4. HENA. K. R 9747858100 		
		5. SHIBU. K. R. 9447221515 		

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