Kerala Board

Answer Key

2024

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ANSWER KEY

first YEAR HIGHER SECONDARY EXAMINATION ..... March 20.24

PART-I/II/III

SUBJECT: ..... Chemistry .....

CODE NO: ..FX425 VERSION:..B..

60.. SCORES ..2.. HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
1		Molarity	1	1
2		P block	1	1
3		SP	1	1
4		BF_3	1	1
5		-OH	1	1
6	(i)	Law of multiple proportion	1	2
	ii	Correct statement	1	
7	(i)	$\lambda = \frac{h}{mv}$ or $\lambda = \frac{h}{p}$	1	2
	ii	$\lambda = \frac{6.626\times10^{-34}}{9.1\times10^{-31}\times1.6\times10^{6}}$ / correct answer	1	
8.		Statement Equation	1 1	2
9.		correct Reason or Diagram	1+1	2
10	(i)	Definition / $G = H - TS$	1	2
	ii	$\Delta G = \Delta H - T\Delta S$ / correct equation	1	
11	(i)	Statement	1	2
	(ii)	Definition or Explanation	1	
12	(i)	+7	1	2
	(ii)	correct explanation of each	$\frac{1}{2}+\frac{1}{2}$	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
13	(i)	correct structure	1	2
	ii	correct structure	1	
14		correct representation of cis and trans	2×1	2
15	(i)	Benzene (C_6H_6)	1	2
	ii	correct answer or Equation	1	
16	(i)	silver - Element Air - Homogeneous mixture Muddy water - Heterogeneous mixture water - compound	$4 \times \frac{1}{2} = 2$	3
	(ii)	Definition	1	
17.	(i)	Name/symbol of quantum numbers	$4 \times \frac{1}{2} = 2$	3
	(ii)	Statement	1	
18	(i)	Unnilpentium/Dubnium	1	3
	ii	Definition	1	
	iii	Related answer	1	
19.	(i)	$(n-1)d^{1-10}ns^{0-2}$ / $(n-1)d^{1-10}ns^{1-2}$	1	3
	(ii)	Any two properties	2	
20	(i)	Any 3 features	$3 \times 1 = 3$	3
21	(i)	Statement	1	3
		Equation	1	
	ii	C or Evaporation of H_2O	1	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
22	(i)	Definition or equation	1	
	ii	Correct equation / correct substitution	2	3
23	(i)	Correct Answer	1	
		One example	1	
	ii	Cu(II) O	1	3
24	(i)	Definition / Explanation / Representation	1	
	(ii)	Any one type of chromatography	1	3
	(iii)	fractional distillation	1	
25	(i)	Correct representation	1+1	
	ii	Staggered	1	3
26	(i)	$CH_3-\underset{Br}{CH}-CH_3$ / I — Major	1	
		$CH_3-CH_2-CH_2Br$ / II — Minor	1	3
	(ii)	Markovnikov's Rule	1	
27	(i)	Correct explanation / 2 postulates	1+1 = 2	
	(ii)	2 Drawbacks	$\frac{1}{2}+\frac{1}{2}$ = 1	4
	(iii)	Correct explanation	1	
28	(i)	(1) PCl_5 - Triagonal bipyramidal (B)		
		(2) SF_6 - octahedral (C)	$4 \times \frac{1}{2}$	
		(3) CH_4 - Tetrahedral (D)	= 2	
		(4) NH_3 - Triagonal pyramidal (A)		
	(ii)	Correct Definition / Equation	1	4
	(iii)	Intermolecular and Intra molecular Hydrogen Bonding	$\frac{1}{2}+\frac{1}{2}$	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
29	(i)	Definition/explanation	1	
	(ii)	Correct enthalpy Diagram with labelling (3) [Born Haber cycle – 1 Application of Hess's law-1 Equation of formation of NaCl-1 One mark for each step]	3	4
30	(i)	Definition/Explanation Any one example including Blood.	1 1	
	(ii)	Correct explanation/equation	1	4
	iii	$K_p = K_c (RT)^{\Delta n}$	1	
31	(i)	Any one difference/Answer example for each	1 $\frac{1}{2}+\frac{1}{2}$	4
	ii	(a) Explanation/Example	1	
		(b) Explanation/Example	1	

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