SSLC 2022 CHEMISTRY ANSWER KEY

by

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1	C_2H_2
2	3d
3	Leaching
4	H ₂ - Hydrogen
5	Avogadro Number (6.022 x 10 ²³)
6	At equilibrium point, the rate of forward reaction is equal to rate of
	backward reaction.
7	Sodium
8	1
9	Cathode
10	a. ammonia gas and hydrogen chloride gas are formed
	b. NH ₃ (g) + HCl (g) \rightarrow NH ₄ Cl(s)
11	Molar mass of ammonia (NH ₃) = 14 + 3 = 17 gm
	In 22.4l of NH ₃ = 17gm
	$1 \log NH_3 = 17/22.4$
	44.8l = 17/22.4 of 44.8
	= 17 x 2 = 34 gm
12	a. The process of obtaining coating of metal over another metal using
	electrolysis is known s electroplating.
	b. Copper sulphate (CuSO ₄)
13	a. $15^2 25^2 2p^3 35^3 3p^3$.
	D. Group No: 17, period No: 3
14	a. Pig iron
	D. AINICO
	different properties because the ratio of the components lieve possess
	different
15	a Amount of product increases
15	h Amount of product increases
	c Amount of product increases
16	a $(H_1 + 2\Omega_2 \rightarrow C\Omega_2 + 2H_2\Omega_3)$
10	h Polymerisation
	c. For coating on the inner surface of non-stick cookware.
17	a. compound (ii) & (iii)
-/	b. Functional isomerism
	c. One

18	a. The gas pressure in cylinder B is higher than cylinder A
	b. Boyle's law
	c. PV=20, V 20L so P= 20/20= 1 atm
19	a. Fe_2O_3
	b. CO (Carbon Monoxide)
	c. Calcium carbonate decomposes to give calcium oxide and carbon
	dioxide at high temperature in the furnace, this calcium oxide (flux)
	reacts with SiO ₂ (gangue) in the ore to form easily melting calcium
	silicate(slag).
	d. CaO+ SiO ₂ \rightarrow CaSiO ₃
20	a. 5
	b. Methyl
	C. 2
	d. 2 – Methylpentane
21	a. contact process
	b. Vanadium (V) oxide (V_2O_5)
	c. The sugar turns into black color. Concentrated sulphuric acid is a
	dehydrating agent and it burns the orqanic compounds like sucrose, so
	the colour of the solution turns black.
22	a. CH_3 – COOH (acetic acid)
	b. $CH_3 - COO - CH_2 - CH_3$ (Ethyl Ethanoate)
	c. $CH_3 - CH_2 - OH$
	d. $C_{12}H_{22}O_{11}$ (Sucrose)
23	a. $1s^2 2s^2 2p^6 3s^2 3p^6 3d^5 4s^2$
	b. d Block
	c. Transition element
	d. +4
	e. $1s^2 2s^2 2p^6 3s^2 3p^6 3d^5 4s^0$
24	a. Chemical energy to electrical energy
	b. Zinc rod (Zn)
	c. $Zn \rightarrow Zn^{2+} + 2^{e^{-}}$
	d. Anode (Zn)
	e. $Zn + Cu^{2+} \rightarrow Zn^{2+} + Cu$