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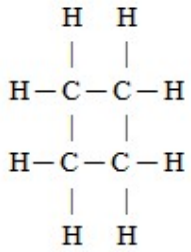
SSLC EXAMINATION, MARCH-2024

Time: $1^{1/2}$ Hours **CHEMISTRY** Total Score: 40

QN	INDICATORS	Marks
	A: Answer any four questions from 1 to 5. Each carry 1 score.	
1	Actinoids	1
2	Glycerol	1
3	Froth floatation	1
4	Ammonia	1
5	H_2	1
	B: Answer any four questions from 6 to 10. Each carry 2 score.	
6	(a) Nichrome (b) Stainless steel and Nichrome	1 1
7	(a) +3 (b) In case of transition elements, along with outermost s electrons, the d electrons from the penultimate shell are also lost as the energies of these subshells are almost equal	1 1
8	(a) Alkene (b) 	1 1
9	(a) 1 atm (b) Boyle's law	1 1
10	(a) (vi) $CH_3 - CH_2 - COO - CH_3$ (b) (ii) $CH_3 - CH_2 - COOH$ & (v) $CH_3 - OH$	1 1
	C: Answer any four questions from 11 to 15. Each carry 3 score.	
11	(a) Contact process (b) Vanadium pentoxide (V_2O_5) (c) Dehydrating nature of sulphuric acid. Sulphuric acid absorbs H and O in the form of water from sugar($C_{12}H_{22}O11$)	1 1 1
12	(a) Copper (b) Silver nitrate ($AgNO_3$) / sodium cyanide + silver cyanide solution (c) $Ag \rightarrow Ag^+ + 1e^-$	1 1 1
13	(a) 6 C (b) Methyl ($-CH_3$) group (c) 3 – Methylhexane	1 1 1
14	(a) Bauxite ($Al_2O_3.2H_2O$) (b) Concentration by leaching	1 2

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	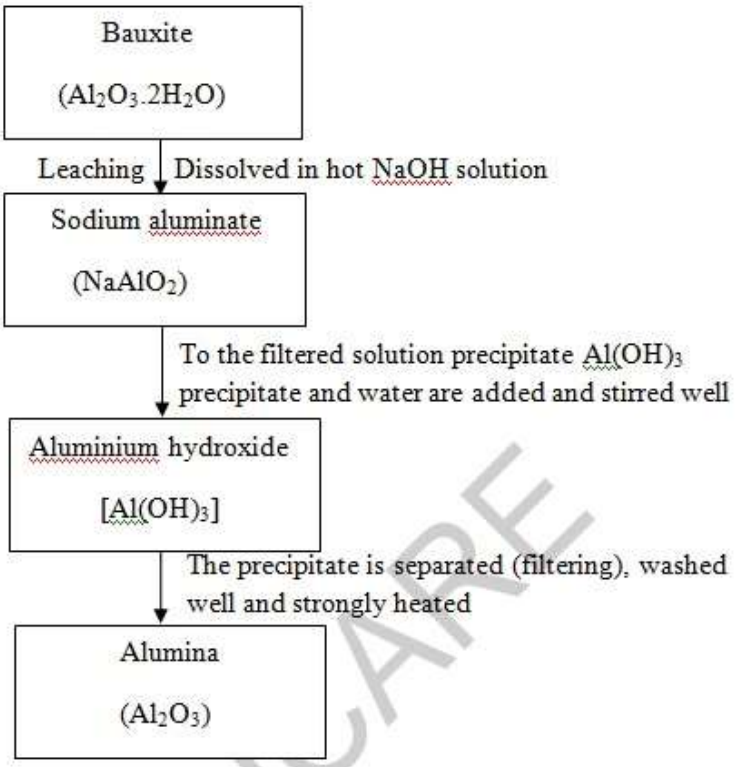	
15	(a) X : $CH_3 - CH_3$ $CH_3 - CH_3 + Cl_2 \rightarrow CH_3 - CH_2Cl + HCl$ (b) Y : $CH_3 - CHCl - CH_2Cl$ $CH_3 - CH = CH_2 + Cl_2 \rightarrow CH_3 - CHCl - CH_2Cl$ (c) Z : $CH_2 = CH_2$ $CH_3 - CH_2 - CH_3 \xrightarrow{Heat} CH_4 + CH_2 = CH_2$	1 1 1
D: Answer any four questions from 16 to 20. Each carries 4 score.		
16	(a) 26 (b) 3d (c) Period number = 4 Group number = 2+6 = 8	1 1 1 1
17	(a) Ether (b) C_3H_8O (c) Methoxyethane (d) $CH_3 - CH_2 - CH_2 - OH$ or $CH_3 - CH(OH) - CH_3$	1 1 1 1
18	(a) 22.4 L (b) No. of moles = $\frac{Given\ mass}{GMM} = \frac{68}{17} = 4$ mole Volume = Mole x 22.4 = 4 x 22.4 = 89.6 L (c) No. of molecules = Mole x N_A = $4N_A$ (4 x 6.022 x 10^{23})	1 2 1
19	(a) The system attains equilibrium when rate of forward reaction becomes equal to rate	1

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	of backward reaction. (b) (i) amount of product decreases (ii) amount of product increases (iii) amount of product increases	 1 1 1
20	(a) Copper (Cu) or Silver (Ag) (b) Mg and Zn (c) (i) Zn (ii) $Fe^{2+} + 2e^{-} \rightarrow Fe$	1 1 1 1

Prepared by:
SHINOY M M
Team A+ BLOG

A plus Blog
Mob: 9746544422
www.apluseducare.blogspot.com

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