SSLC EXAMINATION, MARCH-2020

Time: 1^{1/2} Hours

CHEMISTRY

Total Score: 40

Qn	Scoring indicators	Split	Total			
No		score				
	SECTION A					
	Answer any FOUR questions 1 score each					
1	14	1	1			
2	Hydrogen (H ₂) gas	1	1			
3	Magnetic separation	1	1			
4	Isoprene	1	1			
5	22.4 L	1	1			
	SECTION B Answer any FOUR questions. 2 score each					
6	a. Charles' Law b. Boyle's Law	1 1	2			
7	a. (ii) $1s^22s^22p^63s^23p^63d^54s^1$	1	2			
	b. The electronic configuration in which half filled d subshell (d ⁵) has more stability	1				
8	a. Tin	1	2			
	b. Low melting point (low melting metal)	1				
9	a. Propene : $CH_3 - CH = CH_2$	1	2			
	b. But - 1 - yne : $CH_3 - CH_2 - C \equiv CH$	1				
10	a. By the fermentation of dilute solution of molasses (sugar solution) by adding	1	2			
	yeast.	1				
	b. Poisonous substances are added to ethanol meant for industrial purpose to					
	prevent its misuse as a beverage. This product is known as 'denatured spirit'.					
11	a. Sodium ion (Na ⁺), chloride ion (Cl ⁻)	1	3			
	b. Chlorine gas (Cl ₂)	1				
	c. $Na^+ + e^- \rightarrow Na$ (Reduction)	1				
12	a. Limestone (CaCO ₃), Coke (C)	1	3			
	b. Carbon monoxide (CO)	1				
	c. (iii) $CaO + SiO_2 \rightarrow CaSiO_2$	1				
13	a. 1 GMM $CH_4 = 16 \sigma$	1	3			
15	b 10 mole	1	5			
	No. moles of molecules = Given mass / $GMM = 160 / 16 = 10$ mole	•				
	c. 80 g					



	Methoxyethane			2	
20	٨	D	C		1
20	A			1	7
	Reactants	Products	Name of Reaction	1	
	$CH_4 + Cl_2$	$CH_3Cl + HCl$	Substitution	1	
	$CH_4 + 2O_2$	$CO_2 + 2H_2O$	Combustion	1	
	$CH_3 - CH_2 - CH_3$	$CH_2 = CH_2 + CH_4$	Thermal cracking	1	
	$CH \equiv CH + H_2$	$CH_2 = CH_2$	Addition		

Prepared by:



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