

**SSLC SECOND TERM EXAMINATION 2022
CHEMISTRY**

**Answer Key Prepared by: Jayesh Madasseri; HSST Chemistry;
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Sl.No	Evaluation Points	Marks
1	Zn	
2	Sodium Ion	
3	$N_2 + O_2 \rightleftharpoons 2NO$	
4	Hg	
5	C_6H_6	
6	a. To reduce the melting point of alumina To increase the electrical conductivity of alumina b. Al^{3+}	
7	a. Carbon b. Dehydrating nature	
8	a) Chlorine gas (Cl_2) b) Electrical energy \rightarrow Chemical energy	
9	a. Roasting is the heating the concentrated ore in presence of air Calcination is heating the concentrated ore in the absence of air b. Roasting	
10	a. Pent-2-yne = $CH_3-C \equiv C-CH_2-CH_3$ b. But-1-ene = $CH_2=CH-CH_2-CH_3$	
11	a) Calcium Hydroxide $Ca(OH)_2$ and Ammonium chloride (NH_4Cl) b) CaO (Quicklime) c) Red litmus turns into blue	
12	a. C_3H_4 b. CH_2 (one carbon atom and two hydrogen atom) c. Alkyne	
13	a. Electro plating b. Gold c. Sodium cyanide + Gold cyanide	
14	a. Froth floatation b. Hydraulic washing c. Leaching	
15.	a. C_3H_6 b. Cyclo propane c. $CH_2=CH-CH_3$	
16.	a. Calcium oxide and Coke b. Silicon dioxide (SiO_2) c. CO (carbon monoxide)	

	d. $\text{Fe}_2\text{O}_3 + 3\text{CO} \rightarrow 2\text{Fe} + 3\text{CO}_2$	
17	a. (ii) , (iii) are true statements Both reactants and products co-exist rates of forward and backward reactions are equal b.(i)Increases the concentration of the reactants (ii) decreases the concentration of the products	
18.	a. A= Fe, B= Cu b. Fe(iron) c. $\text{Cu}^{2+} + 2\text{e}^- \rightarrow \text{Cu}$ d. A to B(Anode to cathode)	
19.	a. Contact process b.X= SO_2 Y= $\text{H}_2\text{S}_2\text{O}_7$ c. V_2O_5 (vanadium pentoxide)	
20	a. Six b. methyl c.2,4 d. IUPAC 2,4 – dimethyl hexane	
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