

SSLC EXAMINATION
MARCH - 2020

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Date:

Chemistry Answer Key

SECTION - A

1. 14
2. Hydrogen
3. Magnetic Separation
4. isoprene
5. 22.4 L
6. a) Charles' law
b) Boyle's law
- 7 a) ii) $1s^2 2s^2 2p^6 3s^2 3p^6 3d^5 4s^1$
b) more stable than the other

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SECTION - B

6. a) - Charles' law
b) - Boyle's law
7. a) ii) $1s^2 2s^2 2p^6 3s^2 3p^6 3d^5 4s^1$
b) more stable than the other.
8. a) Tin
b) Low melting metal.
9. a) $CH_3 - CH = CH_2$
b) $CH_3 - CH_2 - C \equiv CH$
10. a) By the fermentation of dilute solution of molasses [mother liquor] by adding yeast.
b) Poisonous substances are added to ethanol meant for industrial purpose to prevent its misuse as beverage. This product is known as denatured spirit.

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SECTION-C

11. a) Na^+, Cl^-
b) Chlorine gas
c) $\text{Na}^+ + \text{e}^- \longrightarrow \text{Na}$ [Reduction]

12. a) Lime, coke
b) Carbon monoxide (CO)
c) iii) $\text{CaO} + \text{SiO}_2 \longrightarrow \text{CaSiO}_3$

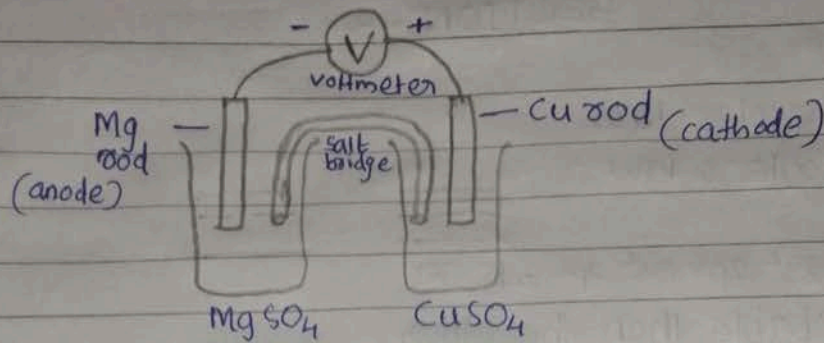
13. a) 16g
b) 10 mole
c) 80g

14. a) Ammonium chloride, calcium hydroxide
b) It becomes blue
c) Basic in nature

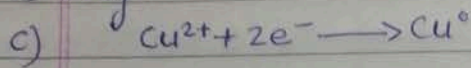
15. a) 6
b) 2, 4
c) 2, 4 - Dimethylhexane

SECTION-D

16.a)



b) Mg



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17.a) BA

b) A

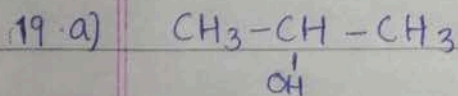
c) (ii), (iii)

18.a) $1s^2 2s^2 2p^6 3s^2 3p^6 3d^5 4s^2$

b) 25

c) block-d, Period-4

d) In case of 'd' block elements, along with outermost 's' electrons, 'd' electrons from the penultimate shell are also lost as the energies of these subshells are almost equal.



b) C_3H_8O

c) $CH_3-O-CH_2-CH_3$ [methoxyethane]

20. $CH_4 + Cl_2$ - $CH_3Cl + HCl$ - substitution

$CH_4 + 2O_2$ - $CO_2 + 2H_2O$ - Combustion

$CH_3-CH_2-CH_3$ - $CH_2=CH_2 + CH_4$ - Thermal cracking

$CH \equiv CH + H_2$ - $CH_2=CH_2$ - Addition