10. Chemistry model

1. 3f 2. ethene
3. Avogadro's law
4. Cl_2 5. Bauxite

6. a. 18g b. 10 mole
7. a. $CaCO_3$, coke b. CO
8. a. +2 b. [Ar] $3d^5\ 4S^0$
9. a. alkene b. $CH_2=CH-CH_3$
10. a. glycerol
    b. They are not biodegradable. cause harm to aquatic life

11. a. P - 200 Q - 1000
    b. Charles law
12. a. Iron ring b. $CuSO_4$ solution
    c. making of H_2, O_2 gases
13. — Washing - ore of gold
    — froth floats - zinc sulphide
    — magnetic - tin stone
14. a. NH_4Cl, $Ca(OH)_2$ b. CaO
    c. It is lighter than air
15. a. C_7H_{16} b. methyl
    c. 3-methyl hexane

16 a. $1s^2 2s^2 2p^6 3s^2$
    b. 3 c. S d. XCl_2
17 a. Fe 2. Cu
    c. $Cu^{2+} + 2\bar{e} \rightarrow Cu$
    d. Fe
18. a. contact process
    b. V_2O_5
    c. i) increases ii) decreases
19. a. -O-
    b. ethers
    c. $CH_3CH_2CH_2OH$
    Propan-1-ol
20 a. addition reaction
    b. substitution reaction
    c. thermal cracking
    d. combustion

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