

DIET WAYANAD
SSLC PRE-MODEL EXAMINATION MARCH 2022
CHEMISTRY

Time: 1 1/2 Hours

Total score :40

Answer Key

PART 1

A. Answer any 4 of questions from 1 to 6 (1 score each) (4x1 = 4)

1. 3d
2. 6.022×10^{23}
3. Na
4. Bauxite
5. 14
6. Calcium Oxide / CaO / quick lime

B. Answer all questions from 7 to 9 (1 score each) (3x1 = 3)

7. c. Used as fuels in nuclear reactors
8. BaCl₂
9. 22.4

PART – II

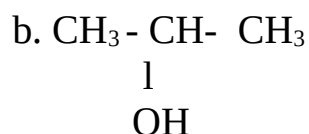
A. Answer the question given below (2 score) (1x2 = 2)

10.

- A. Concentration of ores
- B. Refining of metals

B. Answer any 1 question from 11 and 12 (2 score each) (1x2 = 2)

11 a. Functional Isomerism



12.

- a. It becomes colourless .
- b. Dehydration / Dehydrating agent

PART – III

A. Answer any 3 of questions from 13 to 16 (3 score each) (3x3 = 9)

13.

- 16
- P block
- Group 16 and Period 3

14

- 5
- Methyl ($-\text{CH}_3$)
- 2-Methyl pentane

15.

i. Ammonium Chloride (NH_4Cl), Calcium Hydroxide ($\text{Ca}(\text{OH})_2$)

ii. To remove the moisture .

iii. Ammonia is less denser than air.

16.

- Forward reaction increases
- Forward reaction decreases
- Forward reaction increases

B. Answer the following question. Carries 3 scores. (1x3 = 3)

17.

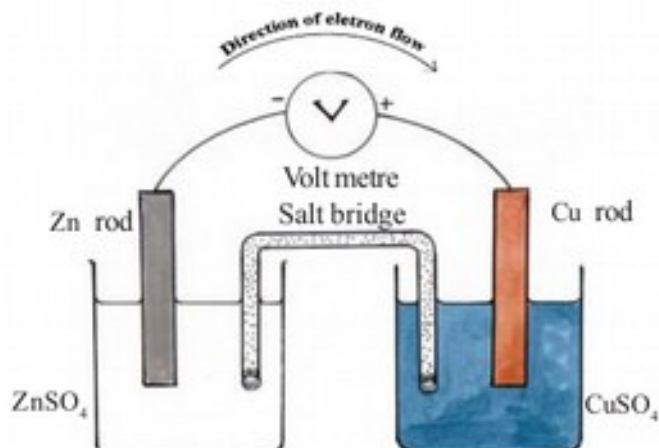
- Carbon rods
- $\text{Al}^{3+} + 3\text{e}^- \rightarrow \text{Al}$
- To reduce the melting point and to increase electrical conductivity .

PART – IV

A. Answer any two questions from 18 to 20. Each carries 4 scores. (2x4 = 8)

18.

i)



ii) Zn – Anode

iii) $\text{Zn} \rightarrow \text{Zn}^{2+} + 2\text{e}^-$

19. Match the following

Magnetic separation	Magnetite
Leaching	Bauxite
Distillation	Mercury
Liquation	Tin

20.

- i) Hydroxyl group (-OH)
- ii) Alcohols
- iii) Pentan - 2 - Ol
- iv). $\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{OH}$

B. Answer any 1 questions from 21 to 22 (4 score each) (1x4 = 4)

21.

- i) Na^+ , Cl^-
- ii) Chlorine / Cl_2
- iii) Sodium / Na
- iv) Electric energy changes to Chemical energy

22.

- i) A $\text{C}_6\text{H}_{12}\text{O}_6$ B Zymase
- ii) Wash
- iii) Power alcohol

PART - V

A. Answer any one question from 23 to 24 (4 scores) (1x5 = 5)

23.

- a) Substitution
- b) $\text{CH}_3 - \text{CH}_3$
- c) Combustion
- d) Thermal cracking
- e) n $\text{CH}_2 = \text{CH}_2$

24.

a) 2

b) 84g

c) $3 \times 6.022 \times 10^{23}$

d) 18

e) 5