



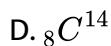
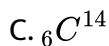
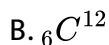
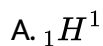
CHEMISTRY

BOOKS - FULL MARKS CHEMISTRY (TAMIL ENGLISH)

SAMPLE PAPER -18 (UNSOLVED)

Part I

1. Which one of the following is the standard for atomic mass?



Answer: A



2. What is the maximum numbers of electrons that can be associated with the following set of quantum numbers ?

A. 4

B. 6

C. 2

D. 10

Answer:



[View Text Solution](#)

3. Which of the following have the highest value of electronegativity?

A. Halogens

B. Alkali metals

C. Alkaline earth metals

D. Transition metals

Answer:

 [View Text Solution](#)

4. The hybridisation of oxygen atom in H_2O and H_3O^+ , are respectively.....

A. sp and sp^3

B. sp and sp

C. sp and sp .

D. sp^3 and sp^3

Answer:

 [View Text Solution](#)

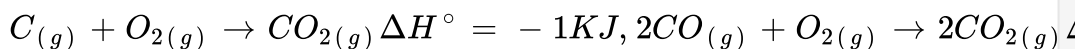
5. Gases deviate from ideal behavior at high pressure. Which of the following statement(s) is correct for non-ideality?

- A. at high pressure the collision between the gas molecule become enormous
- B. at high pressure the gas molecules move only in one direction
- C. at high pressure, the volume of gas become insignificant
- D. at high pressure the intermolecular interactions become significant

Answer:

 [View Text Solution](#)

6. Given that



calculate the ΔH° for the reaction $C_{(g)} + 1/2O_{2(g)} \rightarrow CO_{(g)}$

A. $\frac{b + 2a}{2}$

B. $2a - b$

C. $\frac{2a - b}{2}$

D. $\frac{b - 2a}{2}$

Answer:

 [View Text Solution](#)

7. The expression of K_p for the reversible reaction



A. $K_p = \frac{p^2CO}{pCO_2 \cdot Pc}$

B. $K_p = \frac{PCO_2}{P^2CO}$

C. $K_p = \frac{pCO_3}{PCO}$

D. $K_p = \frac{P^2Co}{Pco_2}$

Answer:

 [View Text Solution](#)

8. 0.5 mole of ethanol is mixed with 1.5 mole of water. Then the mole fraction of ethanol and water are

A. 0.75, 0.25

B. 0.25, 0.75

C. 0.5, 0.5

D. 0.90, 0.10

Answer:



[View Text Solution](#)

9. XeF_2 is isostructural with

A. $SbCl_2$

B. $BaCl_2$

C. TeF_2

D. ICl_2^-

Answer:

 [View Text Solution](#)

10. Copper oxide test is used to detect ...

- A. Carbon & Hydrogen
- B. Oxygen & Nitrogens
- C. Nitrogen & Sulphur
- D. Phosphorous & Chlorine

Answer:

 [View Text Solution](#)

11. Homolytic fission of covalent bond leads to the formation of ...

A. electrophile

B. nucleophile

C. Carbocation

D. free radical

Answer:

 [View Text Solution](#)

12. In the following reactions  the major product obtained is

A. 

B. 

C. 

D. 

Answer:

 [View Text Solution](#)

13. Conversion of benzene to chlorobenzene in the presence of $CuCl_2 / HCl$ is named as

- A. Fittig reaction
- B. Raschig process
- C. Dow's process
- D. Gattermann reaction

Answer:



[View Text Solution](#)

14. Assertion (A): UV radiations damages the fish productivity.

Reason (R): UV radiations affect the growth of phytoplanktons as a result food chain in ocean is disturbed.

- A. Both (A) and (R) are correct but (R) is not the correct explanation of (A).
- B. Both (A) and (R) are correct and (R) is the correct explanation of (A).
- C. (A) is correct but (R) is wrong.
- D. (A) is wrong but (R) is correct.

Answer:

 [View Text Solution](#)

Part II

1. Define - Element and atom.

 [View Text Solution](#)

2. Energy of an electron in hydrogen atom in ground state is -13.6 eV.

What is the energy of the electron in the third excited state?

 [View Text Solution](#)

3. What is compression factor?

 [View Text Solution](#)

4. What are the scope of thermodynamics?

 [View Text Solution](#)

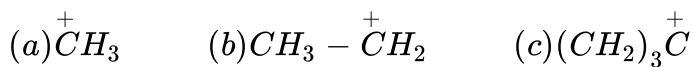
5. For every reaction at a particular temperature, the equilibrium constant has constant value. Is the value of Q also constant? Explain.

 [View Text Solution](#)

6. What are all the advantages of Kjeldahl's method?

 [View Text Solution](#)

7. Arrange the relative stability of following carbocation, (Increasing order)



 [View Text Solution](#)

8. What is Sabatier - Sendersens reaction?

 [View Text Solution](#)

9. Starting from CH_3 MgI, how will you prepare the following?

(a) Acetic acid (B) Acetone

 [View Text Solution](#)

