CHEMISTRY

1. Which of the following product is formed in the reaction

> Dry Ice / acid CH₃MgBr

- A) CH, COOH
- B) CH₄
- C) CH,OH
- D) CH, CH, CHO
- 2. The ground state electronic configuration of an element of atomic number 47 is
 - A) [Kr] 4d⁹5s²
- B) [Xe] 4d¹⁰ 5s¹
- C) [Kr] 4d¹⁰ 5s¹
- D) [Kr] $4d^6 5s^2 5p^3$
- The colour of the precipitate forms when AgNO, solution reacts with S²- ion 3.
 - A) red

- B) black
- C) white
- D) yellow

- Which of the following is an effective reducing agent? 4.
 - A) H,O
- B) H₂S

- C) H, Te
- D) H,Se

- The IUPAC name of $[CuCl_2\{O=C(NH_2)_2\}_2]$ is 5.
 - A) dichloridobis(urea)copper(II)

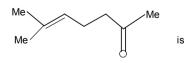
- B) bis(urea)dichloridocopper(II)
- C) dichloridobis(ureaido)copper(II)
- D) bis(ureaido)dichloridocopper(II)
- 6. In the Hydrogen-Oxygen fuel cell, which of the following overall reaction takes place?
 - A) $2H_2(g) + O_2(g) \rightarrow 2H_2O(l)$

B) $2H_2(g) + O_2(g) \rightarrow 2H_2O(g)$

C) $2H_2(1) + O_2(1) \rightarrow 2H_2O(s)$

- D) $2H_2(1) + O_2(1) \rightarrow 2H_2O(1)$
- 7. Lower boiling point of ethers in comparison to those of alcohols of comparable molecular masses is due to
 - A) polarity of ether

- B) dipole moment of ether
- C) absence of extensive hydrogen bonding
- D) both A and B
- The structure of boron nitride is similar to that of 8.
 - A) acetylene B) graphite
- C) phosphine
- D) sodium chloride
- The IUPAC name of the compound 9.



- A) 4 methyl 3 hepten 2 one
- B) 2 methyl 2 hepten 6 one
- C) 6 methyl 5 hepten 2 one
- D) 4 methyl 3 hepten 2 one
- 10. Benzamide can be converted to bezylamine using
 - A) Br₂/KOH B) PCl₅ C) LiAlH₄ D) NaBH₄