

## Section A [15 marks]

Answer all questions in this section.

1. Tetraethyllead(IV),  $(\text{CH}_3\text{CH}_2)_4\text{Pb}$ , is added to petroleum as an anti-knock agent.  $(\text{CH}_3\text{CH}_2)_4\text{Pb}$  is prepared from ethane,  $\text{CH}_3\text{CH}_3$ , according to the following reactions:



Which statement about the reactions is not true?

A. One mole of  $\text{Cl}_2$  produces one mole of  $\text{CH}_3\text{CH}_2\text{Cl}$ .  
 B. Four moles of  $\text{Cl}_2$  produce one mole of  $(\text{CH}_3\text{CH}_2)_4\text{Pb}$ .  
 C. One mole of  $\text{HCl}$  is formed for each mole of  $(\text{CH}_3\text{CH}_2)_4\text{Pb}$  produced.  
 D. Four moles of  $\text{CH}_3\text{CH}_3$  is required for each mole of  $(\text{CH}_3\text{CH}_2)_4\text{Pb}$  produced.

2. Gas  $X$  is collected in a  $250 \text{ cm}^3$  volumetric flask at  $25^\circ\text{C}$  until the pressure of the gas is  $73.5 \text{ kPa}$ . The mass of  $X$  in the flask is  $0.118 \text{ g}$  at  $25^\circ\text{C}$ . What is the mass of  $1 \text{ mol}$  of  $X$ ?  
 [The gas constant,  $R$ , is  $8.31 \text{ J K}^{-1} \text{ mol}^{-1}$ .]

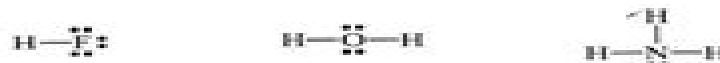
A.  $7.42 \text{ g}$       B.  $11.3 \text{ g}$       C.  $14.6 \text{ g}$       D.  $15.9 \text{ g}$

3. An atom  $M$  has seven valence electrons and forms a stable  $M^{2+}$  ion in an aqueous solution. What is the electronic configuration of atom  $M$ ?

A.  $1s^2 2s^2 2p^6 3s^2 3p^2$   
 B.  $1s^2 2s^2 2p^6 3s^2 3p^6 3d^6$   
 C.  $1s^2 2s^2 2p^6 3s^2 3p^6 3d^6 4s^2$   
 D.  $1s^2 2s^2 2p^6 3s^2 3p^6 3d^7 4s^2$

4. Which compound has an ionic bond?  
 A.  $\text{HCl}$       B.  $\text{BeCl}_2$       C.  $\text{AlBr}_3$       D.  $\text{C}_2\text{H}_5\text{NH}_2\text{Br}$

5. The Lewis structures of molecules  $\text{HF}$ ,  $\text{H}_2\text{O}$  and  $\text{NH}_3$  are shown respectively below.



Which statement about the molecules is true?

A.  $\text{HF}$  and  $\text{H}_2\text{O}$  molecules are planar.  
 B.  $\text{H}_2\text{O}$  molecule is a stronger Lewis base than  $\text{NH}_3$  molecule.  
 C. The boiling points of the molecules increase in the order of  $\text{H}_2\text{O}$ ,  $\text{HF}$ ,  $\text{NH}_3$ .  
 D. The hydrogen bonds formed by the molecules decrease in the order of  $\text{HF}$ ,  $\text{H}_2\text{O}$ ,  $\text{NH}_3$ .

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*Real-World Electronic Voting* Feng Hao, Peter Y. A. Ryan, 2016-11-30 Real World Electronic Voting Design Analysis and Deployment captures all major developments in electronic voting since 2003 in a real world setting. It covers three broad categories e voting protocols attacks reported on e voting and new developments on the use of e voting. This book explores recent innovations in both poll site and remote voting systems and their application throughout the world. The requirements of elections are analysed the available tools and technologies are described and a variety of modern systems are presented in detail together with discussions of deployments. This is an invaluable resource for election professionals researchers and policy makers alike. Key Features Reviews both technical and social aspects of e voting. Covers e voting protocols attacks reported on e voting and new developments on the use of e voting. Designed for government election practitioners and policy makers who want to understand the threats and opportunities in e voting and assess its suitability for future elections.

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