Topic: Chemical Bonding and Molecular Structure

#### CHEMISTRY

Marking Scheme:

(i) Each question is allotted 4 (four) marks for each correct response.

(ii) ¼ (one fourth) marks will be deducted for indicating incorrect response of each question. No deduction from the total score will be made if no response is indicated for an item in the answer sheet.

Q.1 Which of the following molecules has trigonal planer geometry

- (1) IF<sub>3</sub> (2) PCI<sub>2</sub> (3) NH<sub>2</sub> (4) BF<sub>2</sub>
- 0.2 Experiment shows that H2O has a dipole moment while CO2 has not. Point out the structures which best illustrate these facts

(D 0=C=0; H H (2) O=C=O; H-O-H (3) O H - H - O

(4) L L L

The two types of bonds present in B3H6 are O.3covalent and (1) Three centre bond (2) Hydrogen bond

(3) Two centre bond (4) None of the above

What is the correct mode of hybridisation of the Q.4central atom in the following compounds: NOT, SE, PE,

(1)  $sp^2$ ,  $sp^3$ ,  $d^2sp^3$  (2)  $sp^3$ ,  $sp^3d^2$ ,  $sp^3d^2$ 

(3) sp. sp $^3$ d, sp $^3$ d $^2$  (4) sp. sp $^2$ , sp $^3$ 

O.5 Which one of the following is a correct set with respect to molecule, hybridisation and shape -BeCl<sub>2</sub>, sp<sup>2</sup>, linear

(2) BeCl<sub>2</sub>, sp<sup>2</sup>, triangular planar

(3) BCl<sub>3</sub>, sp<sup>2</sup>, triangular planar

(4) BCl<sub>2</sub>, sp<sup>3</sup>, tetrahedral

Q.6 Many ionic crystals dissolve in water because

Water is an amphiprotic solvent.

(2) Water is a high boiling liquid.

(3) The process is accompanied by a positive heat of solution.

(4) Water decreases the interionic attraction in the crystal lattice due to solvation.

Q.7The high melting point and insolubility in organic solvents of sulphanilic acid are due to structure.

(1) Simple ionic (2) Bipolar ionic (3) Cubic (4) Hexagonal

Q.8 Which compound will have electrovalent bonding.

(1) Ammonia (2) Water (3) Calcium chloride (4) Chloromethane

0.9Which of the following compounds does not follow the octet rule for electron distribution (I) PCL<sub>C</sub> (2) PCI<sub>2</sub>.

(4) PH<sub>2</sub> (3) H<sub>2</sub>O

Q.10 Sulphuric acid provides a example of

Co-ordinate bonds

(2) Non-covalent compound

(3) Covalent and co-ordinate bond

(4) Non-covalent ion.

Q.11 In the following which one have zero dipole moment

(2) C (I) BF<sub>2</sub>

(3) BeCL<sub>2</sub> (4) All of these

Q.12 Which molecule has the largest dipole moment (2) HI (I) HCI

(3) HBr (4) HIF

Q.13 Which of the following is the most polar (2) CHCl<sub>2</sub> (1) BF<sub>2</sub>

(3) CH<sub>3</sub>OH (4) CH<sub>2</sub>Cl

O.14 Compound formed by sp<sup>3</sup>d hybridisation will have structure

(1) Planar (2) Pyramidal

(4) Trigonal bipyramidal (3) Angular

Q.15 Which of the following pairs are isostructural? (1) CH<sub>3</sub><sup>-</sup> and CH<sub>3</sub><sup>+</sup> (2) NH<sub>4</sub><sup>+</sup> and NH<sub>3</sub>

(3) SO<sub>4</sub>2- and BF<sub>4</sub>- (4) NH<sub>2</sub>- and BeF<sub>2</sub>

O.16 In which of the following species is the underlined carbon having sp3-hybridisation?

> (1) CH<sub>3</sub>-COOH (2) CH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub> (4) CH<sub>2</sub>=CH-CH<sub>2</sub>

(3) CH<sub>2</sub>COCH<sub>2</sub>

Q.17 Which of the follwing statements is true? (1) HF is less polar than HBr.

(2) Water does not contain any ions.

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**IM Harris** 

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#### **Table of Contents World Of Chemistry Chapter Test Answers**

- 1. Understanding the eBook World Of Chemistry Chapter Test Answers
  - The Rise of Digital Reading World Of Chemistry Chapter Test Answers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying World Of Chemistry Chapter Test Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an World Of Chemistry Chapter Test Answers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from World Of Chemistry Chapter Test Answers
  - Personalized Recommendations
  - World Of Chemistry Chapter Test Answers User Reviews and Ratings
  - World Of Chemistry Chapter Test Answers and Bestseller Lists

- 5. Accessing World Of Chemistry Chapter Test Answers Free and Paid eBooks
  - World Of Chemistry Chapter Test Answers Public Domain eBooks
  - World Of Chemistry Chapter Test Answers eBook Subscription Services
  - World Of Chemistry Chapter Test Answers Budget-Friendly Options
- 6. Navigating World Of Chemistry Chapter Test Answers eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - World Of Chemistry Chapter Test Answers Compatibility with Devices
  - World Of Chemistry Chapter Test Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of World Of Chemistry Chapter Test Answers
  - Highlighting and Note-Taking World Of Chemistry Chapter Test Answers
  - Interactive Elements World Of Chemistry Chapter Test Answers
- 8. Staying Engaged with World Of Chemistry Chapter Test Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers World Of Chemistry Chapter Test Answers
- 9. Balancing eBooks and Physical Books World Of Chemistry Chapter Test Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection World Of Chemistry Chapter Test Answers
- 10. Overcoming Reading Challenges
  - o Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine World Of Chemistry Chapter Test Answers
  - Setting Reading Goals World Of Chemistry Chapter Test Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of World Of Chemistry Chapter Test Answers
  - Fact-Checking eBook Content of World Of Chemistry Chapter Test Answers
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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