

11. The molecule having  $\pi$ -bond

[A.](#) H<sub>2</sub>O

[B.](#) C<sub>2</sub>H<sub>6</sub>

[C.](#) O<sub>2</sub>

[D.](#) NH<sub>3</sub>

**Answer:** Option c

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12. When 2 lone pair and 2 bond pair are around the central atom reduction in the bond angle is up to.

[A.](#) 109.5°

[B.](#) 104.5°

[C.](#) 107.5°

[D.](#) 102°

**Answer:** Option B

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13. In O<sub>2</sub> each oxygen atom is hybridized

[A.](#) sp<sup>3</sup>

[B.](#) sp<sup>2</sup>

[C.](#) sp

[D.](#) All

**Answer:** Option B

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14. Molecular orbitals are filled according to

[A.](#) Auf bau principle

[B.](#) Hunds rule

[C.](#) Paulis Exclusion principle

[D.](#) All these

**Answer:** Option D

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15. Measurement of the degree of polarity is

[A.](#) Electron affinity

[B.](#) Ionic character

[C.](#) Ionization energy

[D.](#) Dipole moment

**Answer:** Option D

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16. Which one shows high %age of the ionic character?

[A.](#) H<sub>2</sub>O

[B.](#) HF

[C.](#) HCl

[D.](#) HBr

**Answer:** Option B

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17. A specie with maximum number of unpaired electrons.

[A.](#) F

[B.](#) H<sub>2</sub>O

[C.](#) HF

[D.](#) NH<sub>2</sub>

**Answer:** Option D

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18. Which of the following have their outer most shell complete in atomic form?

[A.](#) Noble gases

[B.](#) Alkali metals

[C.](#) Coinage metals

[D.](#) Gun metals

**Answer:** Option A

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19. Force responsible to hold atoms together in a compound is called

[A.](#) Bond

[B.](#) Attractive force

[C.](#) Interaction

[D.](#) All of above represent same entity

20. Energy of atom in compound is

[A.](#) Higher than individual

[B.](#) Lesser than individual

[C.](#) No change

[D.](#) Impossible to predict

**Answer:** Option B