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CHEMISTRY

CLASS – XII_A-STAR BATCH

Date :- 15-06-2025

Q.1 The acid which exhibits stronger reducing agent:

(A) $H_4P_2O_5$ (B) H_3PO_4 (C) H_3PO_2 (D) H_3PO_3

Q.2 2s-2p mixing is present in LUMO (Lowest Unoccupied Molecular Orbital) of which molecular species:

(A) O_2^{2+} (B) N_2^{2-} (C) C_2^- (D) Be_2^+

Q.3 First molecular species is stable while second one **does not** exist in which pair of molecular Species:

(A) PH_5, SF_2 (B) PH_3, $H_4P_2O_4$ (C) XeF_3^-, XeF_6 (D) XeF_3^+, SH_2

Q.4 Choose **incorrect** order of given property:

(A) Bond length: $Li_2 > B_2 > F_2$ (B) Basicity: $H_3PO_4 > H_4P_2O_5$

(C) Dipole moment: $CF_3 > CH_3$ (D) Bond order: $ClO_2 > SO_2$

Q.5 Choose **incorrect** statement for halogens:

(A) Their observed colour is due to transition of electron from HOMO to LUMO

(B) Halogen molecules are diamagnetic.

(C) Cl_2 has smallest bond length among all halogens

(D) Bond dissociation energy of F_2 is very close to that of I_2

Q.6 Choose planar and non-polar molecular species:

(A) ClF_3 (B) NO_2 (C) XeF_5^- (D) HCO_3^-

Q.7 Choose the molecular species which **does not** dimerise :

(A) NO_2 (B) CF_3 (C) ClO_2 (D) NO

Q.8 When equimolar amounts of NO(g) and NO_2(g) are cooled then a blue coloured substance **X** is obtained. Find out number of lone pair(s) present in a molecule of **X**.

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THANK YOU