

1) The 'Heme' containing protein(s) is/are

- (A) Cytochrome c (B) Hemocyanine
(C) Hemerythrin (D) Myoglobin

Ans - (A) & (D)

2) Tollen's test will be negative for:

- (A) Glucose (B) Mannose (C) Sucrose
(D) Galactose

3) Among the following, the element having maximum inert pair effect is

[Given: Atomic number of Ge = 30, Pb = 82
Si = 14 and Sn = 50]

- (A) Ge (B) Pb (C) Si (D) Sn

4) The most polar compound among the following is

- (A) SF_4 (B) BF_3 (C) XeF_4 (D) SO_3

5) Molecular shape of SOCl_2 is

- (A) Square planar
(B) Trigonal pyramidal
(C) ~~Trigo~~ Trigonal planar
(D) T-Shaped

6) The pair of semimetals in the following is

- (A) Al, Si (B) Ge, As (C) Sb, Te
(D) Ca, B Ans B, C

7) The most viscous liquid is

- (A) water (B) ~~methanol~~
(C) Ethylene glycol (D) Glycerol

8) The colour of potassium dichromate is due to

- (A) d-d transition
(B) Transition in K^+ ion
(C) ligand-to-metal charge transfer
(D) metal-to-ligand charge transfer

9) In which of the following C-H bond has the highest 's' character?

- (A) Acetylene (B) Ethylene (C) methane
(D) Chloroacetylene

10) Which one of the following has the highest lattice energy?
(A) LiCl (B) CaCl_2 (C) LiF (D) KCl

11) Which one of the following species is ~~not~~ NOT isoelectronic with CO ?
(A) N_2 (B) CN^- (C) NO^+ (D) O_2^+

12) In inorganic qualitative analysis H_2S in acidic medium will NOT precipitate
(A) HgS (B) ZnS (C) CuS (D) CdS

13) The compound having the highest melting point is
(A) LiCl (B) LiF (C) LiI (D) LiBr

14) The shape of SF_6 is
(A) tetrahedral (B) trigonal bipyramidal
(C) square planar (D) octahedral

15) What is the electronegative value of Fluorine
(A) 4 (B) 2.0 (C) 3.0 (D) 1

16) The Bond order of O_2^- is
(A) 2 (B) 1 (C) 2.5 (D) 1.5

17) ClO_4^- ion is
(A) tetrahedral (B) angular (C) pyramidal
(D) None of these

18) which of the following is Inorganic benzene (Borazole) ?

- (A) B_2H_6 (B) B_6H_{10} (C) $B_3N_3H_6$ (D) BH_3O_3

19) Benzamide on treatment with $POCl_3$ gives

- (A) Aniline (B) Benzonitrile (C) Chlorobenzene (D) Benzylamine

20) which of the following ^{has - O - O -} ~~peroxide~~ linkage

- (A) $H_2S_2O_6$ (B) $H_2S_2O_8$ (C) $H_2S_2O_3$ (D) $H_2S_4O_6$

~~Impt~~