

- 20.** Acetic acid exists as dimer in benzene due to:-
 (1) Condensation reaction
 (2) Hydrogen bonding
 (3) Presence of carboxyl group
 (4) None of the above
- 21.** Which of the following compound gives paramagnetic gas on heating ?
 (1) LiNO_3 (2) NaNO_3
 (3) KNO_3 (4) All of these
- 22.** Which of the following statement is correct ?
 As the %s-character of a hybrid orbital decreases
 (1) The bond angle decreases
 (2) The bond strength increases
 (3) The bond length decreases
 (4) Size of orbital decreases
- 23.** In S_8 each sulphur atom is :-
 (1) sp hybridised with a planar ring
 (2) sp^3 hybridised with a planar ring
 (3) sp^3 hybridised with a non-planar ring
 (4) sp^3d hybridised two sulphur atoms
- 24.** Maximum number of identical bond length are present in
 (1) SF_6 (2) IF_7 (3) PCl_5 (4) SO_4^{2-}
- 25.** Which of the following molecule is planar as well as polar ?
 (1) PCl_3 (2) SF_4
 (3) ClF_3 (4) None of these
- 26.** Which one is formed in IInd excited state ?
 (1) PCl_5 (2) SH_6
 (3) SO_3 (4) IF_7
- 27.** In which of the following compounds, breaking of covalent bond take place :-
 (1) Boiling of H_2O (2) Melting of KCN
 (3) Boiling of CF_4 (4) Melting of SiO_2
- 28.** Which of the following order is incorrect ?
 (1) Ionic character = $\text{MCl} < \text{MCl}_2 < \text{MCl}_3$
 (2) Polarisability = $\text{F}^- < \text{Cl}^- < \text{Br}^- < \text{I}^-$
 (3) Polarising power = $\text{Na}^+ < \text{Ca}^{+2} < \text{Mg}^{+2} < \text{Al}^{+3}$
 (4) Covalent character = $\text{LiF} < \text{LiCl} < \text{LiBr} < \text{LiI}$
- 29.** The salt having least solubility in water :-
 (1) BaCl_2 (2) $\text{Ba}(\text{NO}_3)_2$
 (3) MgSO_4 (4) BaSO_4
- 30.** Which of the following substance on being heated will give a gas that does not turn lime water milky?
 (1) LiNO_3 (2) ZnCO_3
 (3) ZnSO_3 (4) MgCO_3

ANSWER KEY

Exercise-I

Que.	1	2	3	4	5	6	7	8	9	10
Ans.	2	1	1	4	4	1	4	2	2	2
Que.	11	12	13	14	15	16	17	18	19	20
Ans.	1	4	3	3	2	4	2	3	1	2
Que.	21	22	23	24	25	26	27	28	29	30
Ans.	4	1	3	1	3	3	4	1	4	1