

NEET PATTERN  
Inorganic Major test

Time: 15 mins

M.H: 60

Q.1 Which is smallest ion?

- (a)  $\text{Li}^+$  (b)  $\text{Mg}^{2+}$  (c)  $\text{Ca}^{2+}$  (d)  $\text{Na}^+$

Q.2 The electronic configuration of element A is  $1s^2, 2s^2 2p^6, 3s^2$ . While of the element B is  $1s^2, 2s^2 2p^5$ . The formula of the compound containing A and B will be -

- (a) AB (b)  $\text{A}_2\text{B}$  (c)  $\text{AB}_2$  (d)  $\text{A}_2\text{B}_6$

Q.3 The electronegativity of the following elements increases in the order:

- (a) C, N, Si, P (b) N, Si, C, P (c) Si, P, C, N  
(d) P, Si, N, C

Q.4 Which ion has a higher polarising power?

- (a)  $\text{Mg}^{2+}$  (b)  $\text{Al}^{3+}$  (c)  $\text{Ca}^{2+}$  (d)  $\text{Na}^+$

Q.5 H-B-H bond angle in  $\text{BH}_4^-$  is:

- (a)  $180^\circ$  (b)  $120^\circ$  (c)  $109^\circ$  (d)  $90^\circ$

Q.6 Water of crystalline structure for  $MgCl_2$  is -

- (a)  $MgCl_2 \cdot 2H_2O$  (b)  $MgCl_2 \cdot 4H_2O$   
(c)  $MgCl_2 \cdot 6H_2O$  (d)  $MgCl_2 \cdot 8H_2O$

Q.7 Which of the following will give flame test with imparting Red violet colour.

- (a) Be (b) Mg (c) Ba (d) Rb

Q.8  $M + H_2 \xrightarrow{\Delta} MH_2$  ; where M cannot be -

- (a) Li (b) Be (c) Mg (d) Al

Q.9 A suspension of slaked lime is known as -

- (a) Quick lime (b) Milk of magnesia  
(c) Milk of lime (d) Lime water

Q.10 According to  $(n+1)$  rule 'La' will be the element of -

- (a) s-block (b) d-block (c) p-block (d) f-block

Q.11 Which of the following do not situated at right place according to their electronic config. in MPT.

- (a) He (b) H (c) La (d) Pd

Q.12 When 0.1 mol  $\text{CoCl}_2(\text{NH}_3)_5$  is treated with excess of  $\text{AgNO}_3$ , 0.2 mol of  $\text{AgCl}$  are obtained.

The conductivity of solution will correspond to —

- (i) 1:3 electrolyte      (ii) 1:2 electrolyte  
(iii) 1:1 electrolyte      (iv) 3:1 electrolyte.

Q.13 What kind of isomerism exists between

$[\text{Cr}(\text{H}_2\text{O})_6]\text{Cl}_3$  (violet) and  $[\text{Cr}(\text{H}_2\text{O})_5\text{Cl}]\text{Cl}_2 \cdot \text{H}_2\text{O}$  (greyish-green)?

- (a) linkage isomerism      (b) solvate isomerism  
(c) ionisation isomerism      (d) co-ordination isomerism

Q.14  $\text{H}_2\text{N}-\overset{\text{CH}_3}{\underset{|}{\text{CH}}}-\overset{\text{CH}_3}{\underset{|}{\text{CH}}}-\text{NH}_2$  is —

- (a)  $P_n$       (b)  $b_n$       (c)  $e_n$       (d) gly

Q.15. Which is correct —

- (a)  $[\text{Cu}(\text{NH}_3)_4]^{+2} \rightarrow sp^3 \rightarrow \text{Tetrahedral}$   
(b)  $[\text{PtCl}_4]^{-2} \rightarrow sp^3 \rightarrow \text{Tetrahedral}$   
(c)  $[\text{Co}(\text{H}_2\text{O})_6]^{+3} \rightarrow d^2sp^3 \rightarrow \text{Octahedral}$   
(d)  $[\text{NiF}_6]^{-2} \rightarrow sp^3d^2 \rightarrow \text{Octahedral}$ .