



20.  $IE_1$ ,  $IE_2$  and  $IE_3$  of an element are 10 eV, 15 eV, 45 eV respectively, the most stable oxidation state of the element will be :-  
 (1) + 1      (2) + 2      (3) + 3      (4) + 4
21. Which of the following is energy releasing process?  
 (1)  $X^- \rightarrow X(g) + e^-$   
 (2)  $O^-(g) + e^- \rightarrow O^{2-}$   
 (3)  $O(g) \rightarrow O^+(g) + e^-$   
 (4)  $O(g) + e^- \rightarrow O^-(g)$
22. Among the following least and most polar bonds are respectively :-  
 (a) C - I      (b) N - O      (c) C - F      (d) P - F  
 (1) d and c                      (2) a and d  
 (3) b and d                      (4) b and c
23. Which compound strongly absorb  $CO_2$ ?  
 (1) BeO                              (2)  $K_2O$   
 (3)  $H_3PO_4$                       (4)  $P_4O_6$
24. Which of the following is different from other three oxides?  
 (1) MgO      (2) SnO      (3) PbO      (4) ZnO
25.  ${}_{92}U$  (IIIB) changes to  ${}_{90}Th$  by emission of  $\alpha$ -particle. Daughter element will be in -  
 (1) IB      (2) IIA      (3) IIIB      (4) VB
26. The  $IE_1$  &  $IE_2$  of three elements A, B & C are given as (IE in KJ/mol).
- |        |      |      |      |
|--------|------|------|------|
|        | A    | B    | C    |
| $IE_1$ | 400  | 550  | 1150 |
| $IE_2$ | 2650 | 1070 | 2090 |
- Identify the element which represent a non-metal:-  
 (1) A                              (2) B  
 (3) Both A & B              (4) C
27. The pair of amphoteric hydroxide is  
 (1)  $Al(OH)_3$ , LiOH  
 (2)  $Be(OH)_2$ ,  $Mg(OH)_2$   
 (3)  $B(OH)_3$ ,  $Be(OH)_2$   
 (4)  $Be(OH)_2$ ,  $Zn(OH)_2$
28. Which process requires maximum energy?  
 (1)  $Na(g) \rightarrow Na^+(g) + e^-$   
 (2)  $Al^{+3}(g) \rightarrow Al^{+4}(g) + e^-$   
 (3)  $Al^{+2}(g) \rightarrow Al^{+3}(g) + e^-$   
 (4)  $Na^+(g) \rightarrow Na^{+2}(g) + e^-$
29. Highest electron affinity observe in :-  
 (1)  $2s^22p^5$                       (2)  $2s^22p^4$   
 (3)  $2s^22p^3$                       (4)  $2s^22p^1$
30. Ionization potential of Na equals to the :-  
 (1) Electron affinity of  $Na^+$   
 (2) Electronegativity of  $Na^+$   
 (3) Electron affinity of He  
 (4) Ionization potential of Mg

## ANSWER KEY

## Exercise-I

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