





- 8 **(b)**  
It is a fact.
- 9 **(a)**  
AgBr decomposes on exposure to light.
- 10 **(c)**  
Hg is volatile metal.
- 11 **(a)**  
In amalgam, Hg has zero oxidation state.
- 12 **(c)**  
Haematite contains  $\text{SiO}_2$  (acidic) non-fusible impurity and this basic flux  $\text{CaCO}_3$  is used.  
 $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$ ,  
 $\text{CaO} + \text{SiO}_2 \rightarrow \text{CaSiO}_3$   
Slag
- 13 **(a)**  
Cu forms  $\text{Cu}(\text{NH}_3)_4^{2+}$  complex.
- 14 **(d)**  
It is a reason for given fact.
- 15 **(b)**  
Permanent magnets are generally made up of alloys of Al, Ni and Co
- 16 **(d)**  
ZnS is white. (Follow II gp. qualitative analysis).
- 17 **(c)**  

$$\text{Hg}_2\text{Cl}_2 + 2\text{NH}_4\text{OH} \rightarrow \text{Hg} + \text{Hg}(\text{NH}_2)\text{Cl} + \text{NH}_4\text{Cl} + 2\text{H}_2\text{O}$$
Black
- 18 **(a)**  
The chemical formula for ammonium molybdate is  $(\text{NH}_4)_2\text{MoO}_4$ .
- 19 **(a)**  
It is a reason for the given fact.
- 20 **(a)**  
The electronic configuration of  ${}_{62}\text{Sm}^{3+}$  is  $4f^4$  and that of  ${}_{66}\text{Dy}^{3+}$  is  $4f^9$ . The colour of  $f^n$  and  $f^{14-n}$  are often identical

ANSWER-KEY										
Q.	1	2	3	4	5	6	7	8	9	10
A.	D	A	D	D	A	C	A	B	A	C
Q.	11	12	13	14	15	16	17	18	19	20
A.	A	C	A	D	B	D	C	A	A	A

PE