



13. Sugar reacts with conc  $\text{H}_2\text{SO}_4$  to give the smell of burning sugar. It is due to the formation of  
a.)  $\text{CO}_2$       b.)  $\text{SO}_2$       c.) C      d.) both  $\text{CO}_2$  and  $\text{SO}_2$
14. A gas when passed through an acidified solution of  $\text{K}_2\text{Cr}_2\text{O}_7$  turns it green. The gas is  
a.)  $\text{H}_2$       b.)  $\text{Cl}_2$       c.)  $\text{NH}_3$       d.)  $\text{SO}_2$
15. Total number of lattice arrangements in different crystal system is  
a.) 7      b.) 3      c.) 8      d.) 14
16. In crystal of  $\text{CsCl}$ , the nearest neighbours of each  $\text{Cs}^+$  ion  
a.) 6  $\text{Cl}^-$  ions      b.) 8  $\text{Cs}^+$  ions      c.) 6  $\text{Cs}^+$  ions      d.) 8  $\text{Cl}^-$  ions
17. The best reducing agent for the extraction of chromium from chromite ore is  
a.) C      b.) CO      c.) Fe      d.) Al
18. The radius ratio of a substance is 0.32. The coordination number of the substance is  
a.) 8      b.) 3      c.) 4      d.) 6
19. Iodine is an example of  
a.) ionic crystal      b.) metallic crystal      c.) molecular crystal      d.) covalent crystal
20. A compound of A and B crystallizes in a cubic lattice in which A atoms occupy the lattice points at the corners of the cube and B atoms occupy the centre of each face of the cube. The probable empirical formula of the compound is  
a.)  $\text{AB}_2$       b.)  $\text{A}_3\text{B}$       c.) AB      d.)  $\text{AB}_3$