

Smart DPPs



CLASS: XIIth
DATE:
SUBJECT: CHEMISTRY
DPP No.: 1

Topic:-THE SOLID STATE

| | | F - F - C - | | | | |
|-----|--|--|--|--|--|--|
| 1. | Schottky defect generally a) NaCl | y appears in b) KCl | c) CsCl | d) All of these | | |
| 2. | Which arrangement of each $\uparrow \uparrow \uparrow \uparrow \uparrow$ | lectrons leads ferr <mark>omagne</mark> b) ↑↓↑↓ | etism? c) ↑↑↑↓↓ | d) None of these | | |
| 3. | The crystal are bounded between these is: | by plane faces (f) , straigh | t edges (e) and interfacial | angel (c) . The relationship | | |
| | a) $f + c = e + 2$ | b) $f + e = c + 2$ | c) $c + e = f + 2$ | d) None of these | | |
| 4. | The melting point of RbBr is 682° C, while that of NaF is 988° C. The principle reason that melting point of NaF is much higher than that of RbBr is that : a) The two crystals are not isomorphous b) The molar mass of NaF is smaller than that of RbBr c) The internuclear distance $r_{\rm c} + r_{\rm a}$ is greater for RbBr than for NaF d) The bond is RbBr has more covalent character than the bond in NaF. | | | | | |
| 5. | | | cube is enjoyed by sodium 1 (W), then give its formul c) Na ₃ WO ₃ | | | |
| 6. | In antifluorite structure, the negative ions: a) Occupy tetrahedral voids b) Occupy octahedral voids c) Are arranged in ccp d) Are arranged in hcp | | | | | |
| 7. | An insulator oxide is : a) CuO | b) C _O O | c) Fe ₂ O ₃ | d) All of these | | |
| 8. | a) Si | cal and thermal conductivi | c) NaCl | d) ice | | |
| 9. | The radius ratio $\left(\frac{r_+}{r}\right)$ of a a) 6 | an ionic solid (A^+B^-) is 0.0 b) 8 | 69. What is the coordinati | on number of B^- ? | | |
| 10. | The axial angles in tricling a) $\alpha = \beta = \gamma = 90^{\circ}$ | , | | d) $\alpha = \beta = \gamma \neq 90^{\circ}$ | | |
| 11. | In NaCl crystal each Cl ⁻ i a) 4 Na ⁺ ions | ion is surrounded by b) 6 Na ⁺ ions | c) 1 Na ⁺ ion | d) 2 Na ⁺ ions | | |
| | | | | | | |



| 12. | For an ionic crystal of the general formula A^+B^- and co-ordination number 6, the radius ration will be a) Greater than 0.73 b) Between 0.73 and 0.41 c) Between 0.41 and 0.22 d) Less than 0.22 | | | | | |
|-----|---|--|---|--|--|--|
| 13. | The ratio of cations to a a) 0.414 | nion in a octahedral close b) 0.225 | packing is: c) 0.02 | d) None of these | | |
| 14. | Electrons in a paramagra) Shared | netic compound are b) Unpaired | c) Donated | d) Paired | | |
| 15. | Crystals which are good a) Ionic crystals | l conductor of elect <mark>ricity a</mark> b) Covalent cry <mark>stals</mark> | | d) Molecular crystal | | |
| 16. | An element has bcc strue a) 12.08×10^{23} | octure having unit cells 12. b) 24.16×10^{23} | 08×10^{23} . The number of c) 48.38×10^{23} | of atoms in these cells is : d) 12.08×10^{22} | | |
| 17. | Among the following typa) Triangular | pes of voids, which one is b) Cubic | the largest void? c) Tetrahedral | d) Octahedral | | |
| 18. | The crystalline structur a) Hexagonal close pack c) Square planar | | b) Face centred cubic d) Body centred cubic | | | |
| 19. | Metals have conductivit a) 10^{12} | y of the order of (ohm ⁻¹ b) 10 ⁸ | cm^{-1}): | d) 10^{-6} | | |
| 20. | Of the elements Sr, Zr, Ma) Se, Cd and Sb | Io, Cd and Sb, all of which b) Zr, Mo and Cd | are in V period, the param c) Sr, Zr and Cd | agnetics are: d) Zr, Mo and Sb | | |

