

**SUBJECT: CHEMISTRY CLASS: XIth** 

DATE: DPP No.: 1

**Topic:-THE SOLID STATE** 

1. Schottky defect generally appears in

a) NaCl

b) KCl

c) CsCl

d) All of these

2. Which arrangement of electrons leads ferromagnetism?

a) 1 1 1 1

b)↑↓↑↓

c)  $\uparrow \uparrow \uparrow \downarrow \downarrow$ 

d) None of these

The crystal are bounded by plane faces (f), straight edges (e) and interfacial angel (c). The relationship between these is:

f + c = e + 2

b) f + e = c + 2 c) c + e = f + 2 d) None of these

The melting point of RbBr is  $682^{\circ}C$ , while that of NaF is  $988^{\circ}C$ . 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  $r_c + r_a$  is greater for RbBr than for NaF

d) The bond is RbBr has more covalent character than the bond in NaF.

5. If a crystal lattice of a compound, each corner of a cube is enjoyed by sodium, each edge of a cube has oxygen and centre of a cube is enjoyed by tungsten (W), then give its formula

 $Na_2WO_4$ a)

 $NaWO_3$ b)

 $Na_3WO_3$ 

d)  $Na_2WO_3$ 

6.	In antifluorite structure, the negative ions:										
	a) Occupy tetrahedral voids										
	b) Occupy octahedral voids										
	c) Are arranged in ccp										
	d)Are arra	anged in hcp									
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7.	An insulat	or oxide is :									
	a)	CuO	b)	$c_o o$	c)	$Fe_2O_3$	d) All o	of these			
				CF	MA	DTH	1				
8.	A solid wit	th high elect	rical and the	ermal condu	ctivity fron	n the following	g is :				
	a)	Si	b)	Li	c)	NaCl	d)	ice			
9.	The radius	s ratio $\left(\frac{r_+}{r}\right)$ o	of an ionic so	olid $(A^+B^-)$ i	is 0.69. Wh	at is the coord	dination	number of	B-?		
	a) 6	(1_)	b)8		c) 2		d) 10				
10.	The axial a	angles in tric	clinic crystal	system are							
	a) $\alpha = \beta$	$\beta = \gamma = 90^{\circ}$	b) $\alpha = \gamma =$	$=90^{\circ}, \beta \neq 90^{\circ}$	0°c) α ≠	$\beta \neq \gamma \neq 90^{\circ}$	d) α	$=\beta=\gamma\neq$	90°		
	3	8									
11.	In $NaCl$ crystal each $Cl^-$ ion is surrounded by										
	a) <sub>4 Na</sub> + io	ons	b) <sub>6 Na<sup>+</sup> i</sub>	मृत्योर्मा अ ons	c) <sub>1 Na</sub> +	ion	d) <sub>2 No</sub>	a <sup>+</sup> ions			
		AM									
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 anion in a octahedral close packing is:									
	a) 0.414	b) 0.225	c) 0.02	d) None of these						
14.	14. Electrons in a paramagnetic compound are									
	a) Shared	b) Unpaired	c) Donated	d) Paired						
15.	Crystals which are good conductor of electricity and heat are known as:									
	a) Ionic crystals	b) Covalent crystals	c) Metallic crystals	d) Molecular crystal						
		7.	-MK 11							
16.	An element has bcc structure having unit cells $12.08 \times 10^{23}$ . The number of atoms in these cells									
	is: a) $12.08 \times 10^{23}$	b) $24.16 \times 10^{23}$	c) $48.38 \times 10^{23}$	d) $12.08 \times 10^{22}$						
17.	7. Among the following types of voids, which one is the largest void?									
	a) Triangular	b) Cubic	c) Tetrahedral	d) Octahedral						
		DO(11K								
18.	The crystalline structure of NaCl is असती मा सद्भय।									
	a) Hexagonal close pac	king तमसो मा ज	b) Face centred cubic							
	c) Square planar	भृत्यामा अ	d) Body centred cubic							
	141	ARE 4	YOUR	P						
19.	Metals have conductivity of the order of $(ohm^{-1} cm^{-1})$ :									
	a) 10 <sup>12</sup>	b) 10 <sup>8</sup>	c) $10^2$	d) $10^{-6}$						
20.	Of the elements $Sr, Zr, Mo, Cd$ and $Sb$ , all of which are in $V$ period, the paramagnetics are:									
	a) $Se, Cd$ and $Sb$	b) $Zr$ , $Mo$ and $Cd$	c) $Sr, Zr$ and $Cd$	$^{ m d)}_{Zr,Mo}$ and $Sb$						



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