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State Solid about Worksheet الملف

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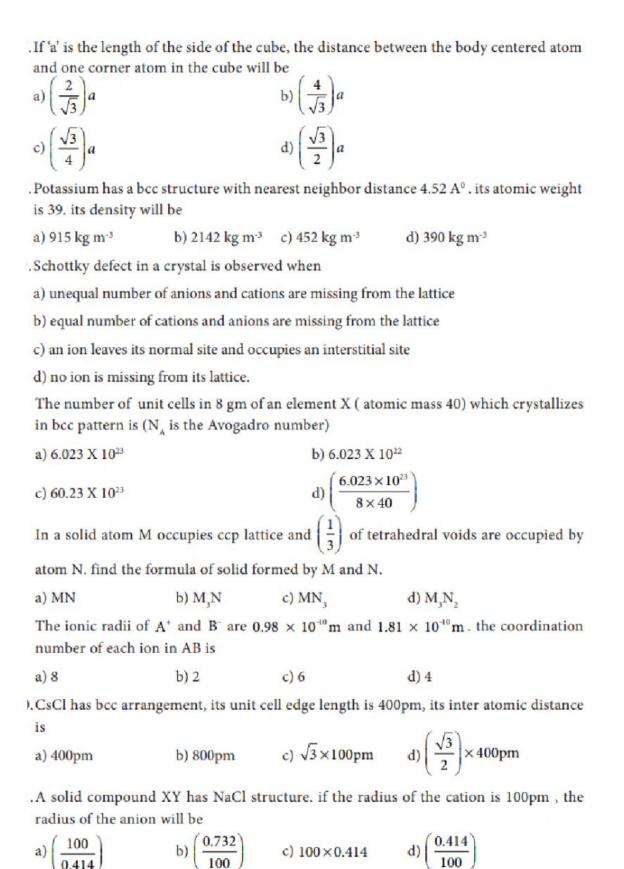
More files for 12th Grade, Subject Chemistry, Term 1		
Worksheet about Introduction to Organic Chemistry	1	
<u>CHEMISTRY TEST</u>	2	

6 Solid State

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.The cation leaves its normal position position, the defect in the crystal is kn	n in the crystal and moves to some interstitial nown as			
a) Schottky defect	b) F center			
c) Frenkel defect	d) non-stoichiometric defect			
. Assertion: due to Frenkel defect, dens	sity of the crystalline solid decreases.			
Reason: in Frenkel defect cation and anion leaves the crystal.				
a) Both assertion and reason are true and reason is the correct explanation of assertion.				
b) Both assertion and reason are true but reason is not the correct explanation of assertion.				
c) Assertion is true but reason is false.				
d) Both assertion and reason are false				
. The crystal with a metal deficiency defect is				
a) NaCl	b) FeO			
c) ZnO	d) KCI			
The second secon	med by two different atoms X and Y is shown present atoms X and Y respectively. the simplest he unit cell from the pattern is			
a) XY ₈	b) X ₄ Y ₉			
c) XY ₂	d) XY ₄			
Graphite and diamond are				
a) Covalent and molecular crystals	b) ionic and covalent crystals			
c) both covalent crystals	d) both molecular crystals			
	in fcc type crystal structure with B ions at the ying corners of the cube. the correct formula of			
a) AB	b) AB,			

d) A₈B₆

c) A₃B



.The vacant space in	bcc lattice unit ce	ell is		
a) 48%	b) 23%	c) 32%	d) 26%	
.The radius of an atom is 300pm, if it crystallizes in a face centered cubic lattice, the length of the edge of the unit cell is				
a) 488.5pm	b) 848.5pm	c) 884.5pm	d) 484.5pm	
.The fraction of total	volume occupied	l by the atoms in a s	simple cubic is	
a) $\left(\frac{\pi}{4\sqrt{2}}\right)$	b) $\left(\frac{\pi}{6}\right)$	c) $\left(\frac{\pi}{4}\right)$	d) $\left(\frac{\pi}{3\sqrt{2}}\right)$	
.The yellow colour in	NaCl crystal is d	lue to		
a) excitation of electro	ons in F centers			
b) reflection of light f	rom Cl ⁻ ion on the	e surface		
c) refraction of light f	rom Na+ ion			
d) all of the above				
.if 'a' stands for the edge length of the cubic system; sc , bcc, and fcc. Then the ratio of radii of spheres in these systems will be respectively.				
$a)\left(\frac{1}{2}a:\frac{\sqrt{3}}{2}a:\frac{\sqrt{2}}{2}a\right)$		b) $(\sqrt{1}a : \sqrt{3}a : \sqrt{2}a)$		
c) $\left(\frac{1}{2}a:\frac{\sqrt{3}}{4}a:\frac{1}{2\sqrt{2}}a\right)$		$d)\left(\frac{1}{2}a:\sqrt{3}a:\frac{1}{\sqrt{2}}a\right)$		
Solid CO ₂ is an example of				
a) Covalent solid		b) metallic solid		
c) molecular solid		d) ionic solid		
Assertion: monoclinic sulphur is an example of monoclinic crystal system				
Reason: for a monoclinic system, $a \neq b \neq c$ and $\alpha = \gamma = 90^{\circ}$, $\beta \neq 90^{\circ}$				
a) Both assertion and reason are true and reason is the correct explanation of assertion.				
b) Both assertion and reason are true but reason is not the correct explanation of assertion.				
c) Assertion is true but reason is false.				
d) Both assertion and reason are false.				
In calcium fluoride, having the flurite structure the coordination number of Ca^{2+} ion and F^{-} Ion are (NEET)				
a) 4 and 2		b) 6 and 6		
c) 8 and 4		d) 4 and 8		

The ratio of close packed atoms to tetrahedral hole in cubic packing is

a) 1:1

b) 1:2

c) 2:1

d) 1:4