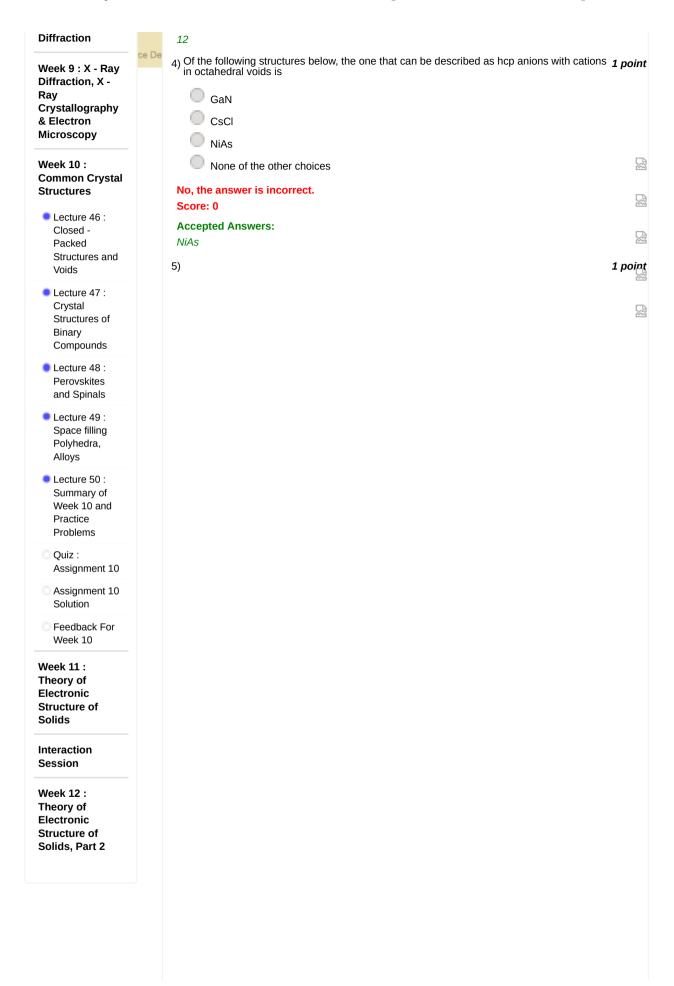


NPTEL National Programme on Technology Enhanced Learning



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Consider a cubic CsCl unit cell of side $a$ . The nearest distance between a Cs+ ion and a Cl- ion is	
	2
	A
	2
	B

(0)	
a/2	
$a/\sqrt{2}$	
$a\sqrt{3}/2$	<u> </u>
None of the other choices	
No, the answer is incorrect. Score: 0	R
Accepted Answers: $a\sqrt{3}/2$	R
6) Consider the Zinc blende structure. The coordination polyhedra of this structure about a cation is a/an	1 point
tetrahedron	
octahedron	
distorted octahedron  none of the other choices	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
tetrahedron	
7) The element that crystallizes in a simple cubic structure is	1 point
Ni	
☐ Fe	
О c	
Po	
No, the answer is incorrect. Score: 0	
Accepted Answers: Po	
8) If $a$ is the nearest distance between Ga ions in GaN and we assume an ideal wurtzite structure for GaN, the nearest distance between Ga and N ions is equal to	1 point
a/2	
$a\sqrt{3}/2$	
$a\sqrt{3}/2$ $a\sqrt{2}/2$	
$a\sqrt{2}/2$	
$a\sqrt{3/8}$	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
$a\sqrt{3/8}$	

If the distance between two nearest neighbor zinc ions in ZnS is a, then the nearest distance between

