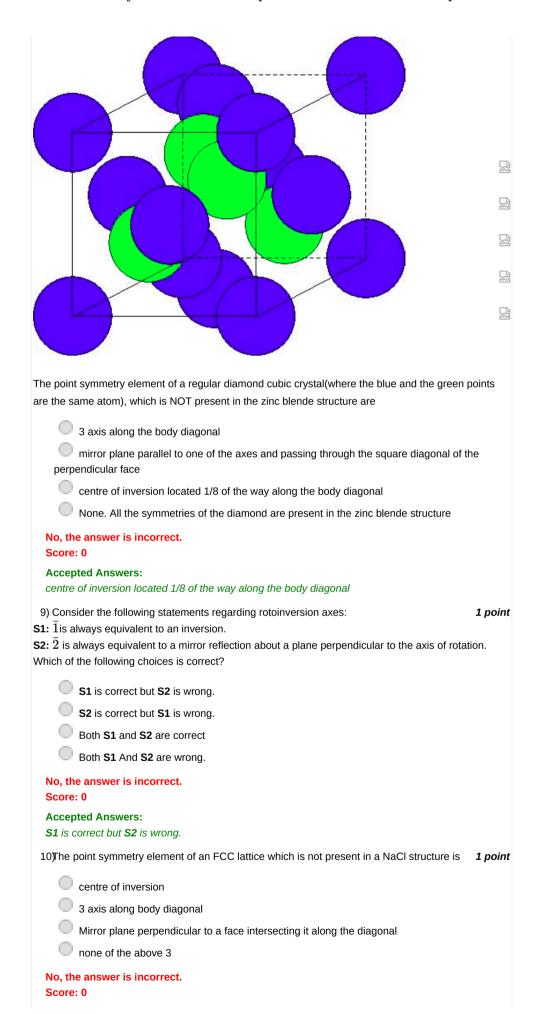


Assignment 3 Solution	4) For a BCC crystal, the number of mirror planes parallel to any one of the six faces of the cube is equal to	1 point
Week 4 : Symmetry in Crystals Part 2	1 2	
Week 5 : Crystal Systems, Point Groups and Space Groups	No, the answer is incorrect.	R
Week 6 : Crystallographic Notations	Score: 0 Accepted Answers: 1	<u> </u>
Week 7 : Coordination number, voids, defects in	5) In a diamond cubic lattice, the axis passing along one of the body diagonal is a 3 symmetry axis	1 poin
Interactive Session	a $ar{3}$ symmetry axis a $ar{6}$ symmetry axis	[0.00
Week 8 : X-ray Diffraction and Concepts related to X-ray Diffraction	No, the answer is incorrect. Score: 0 Accepted Answers:	
Week 9 : X - Ray Diffraction, X - Ray Crystallography & Electron Microscopy	a 3 symmetry axis 6) The point symmetry element that is present in bcc but not in fcc is an inversion centre a four fold rotation axis	1 poin
Week 10 : Common Crystal Structures	None. All symmetry operations of bcc are in fcc No, the answer is incorrect.	
Week 11 : Theory of Electronic Structure of Solids	Score: 0 Accepted Answers: None. All symmetry operations of bcc are in fcc 7) Consider a conventional diamond cubic cell with an atom at the corner of the cell. The	1 point
Interaction Session	location of the $\overline{4}$ rotoinversion axis in this cell is along the body diagonals	
Week 12 : Theory of Electronic Structure of Solids, Part 2	parallel to one of the axes and passing through the centre of the two opposite faces. from the centre of the one of the 12 edges to the centre of the opposite edge. None of the above	
	No, the answer is incorrect. Score: 0 Accepted Answers: parallel to one of the axes and passing through the centre of the two opposite faces.	
	8) A zinc blende crystal structure can be thought of as a diamond- cubic like structure where the atoms at the body diagonals are different from those at the face centres. In the figure below can consider that the blue and the green points represent different atoms.	-



Accepted Answers: none of the above 3		
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