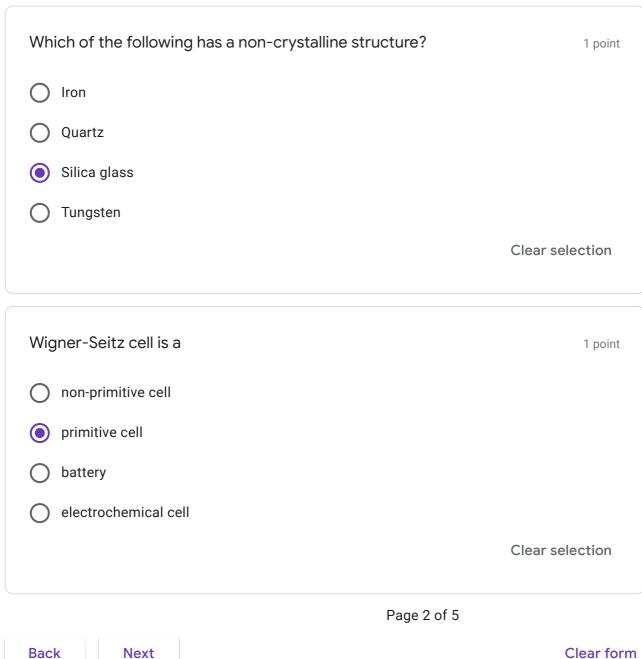
Physics of Materials and Nuclei - MidSem

210310470128@med.svnit.ac.in Switch account	
⊘	
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Crystallography	
Atomic packing factor is	1 point
Distance between two adjacent atoms	
Volume fraction of atoms in cell	
Projected area fraction of atoms on a plane	
None of the above	
	Clear selection
	Clear selection
Which one of the following is least symmetrical?	Clear selection 1 point
Which one of the following is least symmetrical? Tetragonal	
Tetragonal	
TetragonalSimple cubic	
TetragonalSimple cubicTriclinic	

The possible rotation through an axis passing through a lattice point for 1 point symmetry operation in a single crystal is
Ο 2π/5
Ο 2π/7
② 2π/3
None of the above
Clear selection
In the x-ray diffraction of a set of crystal planes having spacing (d) equal to 1 point 1.8 Å, the first order reflection is found to be at an angle of 30°. The wavelength of x-ray is
O.7 Å
O 1.2 Å
O.6 Å
● 1.8 Å
Clear selection
If r is the radius of the atom in a crystal, crystallizing in the simple cubic 1 point structure, then the nearest neighbour distance is
O r/2
O 4r
o r
None of the above
Clear selection



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