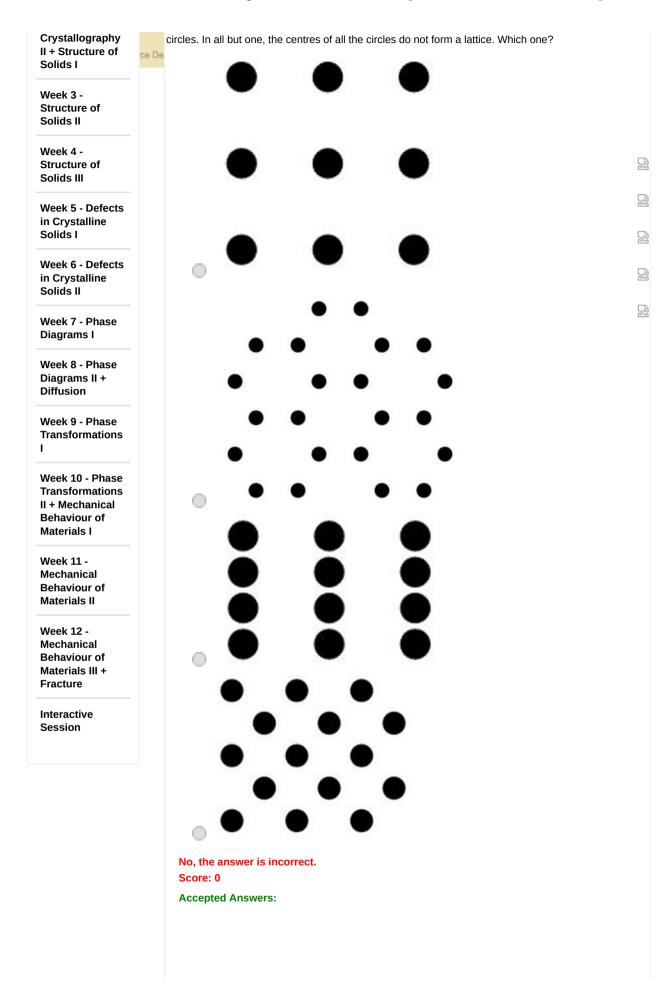
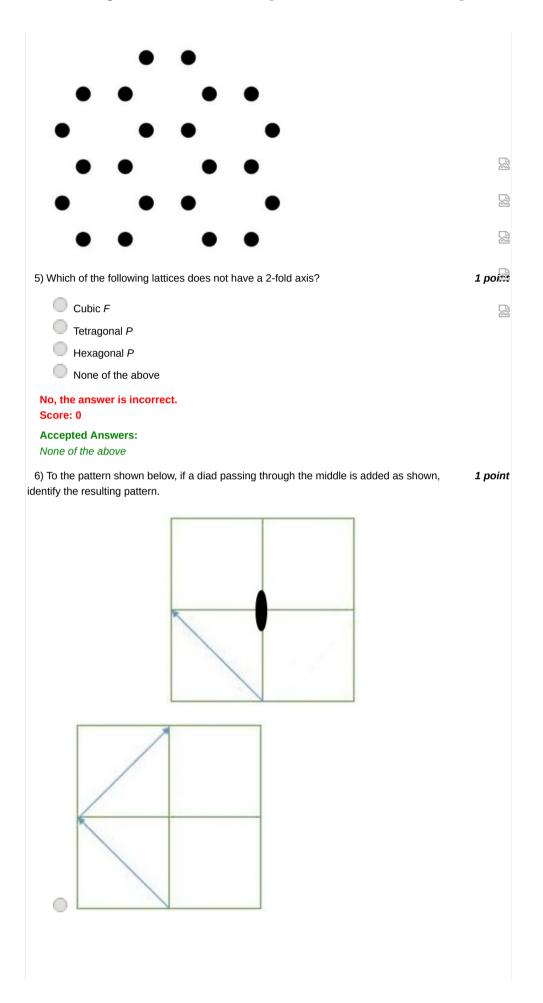
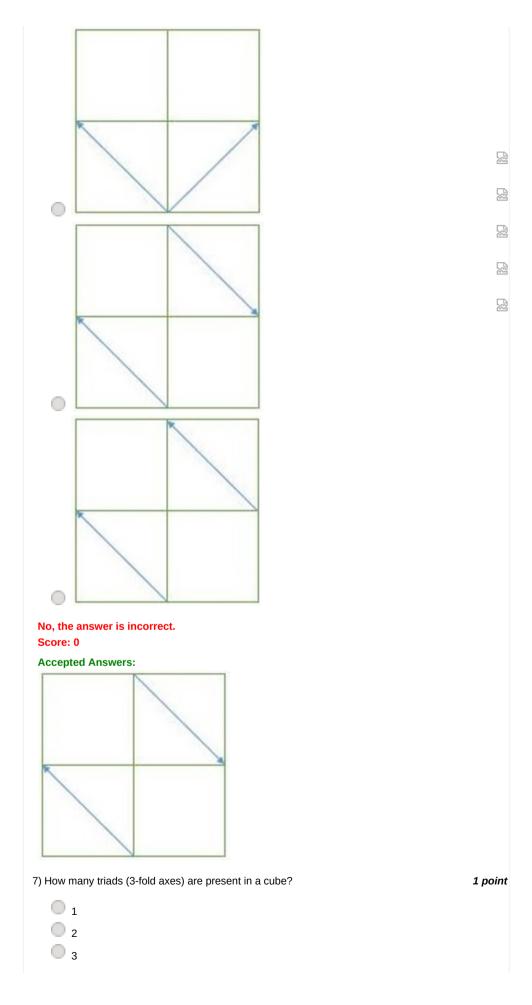
Χ reviewer4@nptel.iitm.ac.in ▼ Courses » Introduction to Materials Science and Engineering Announcements Course Ask a Question **Progress** FAQ **Unit 4 - Week 1 -**Crystallography I Register for **Assignment 1 Certification exam** The due date for submitting this assignment has passed. Course As per our records you have not submitted this Due on 2019-02-13, 23:59 IST. outline assignment. 1) A given lattice has 1 point How to access the portal A unique unit cell Supplementary A unique primitive unit cell and a unique non-primitive unit cell Materials Week 1 -A unique primitive unit cell but more than one non-primitive unit cells Crystallography More than one primitive unit cells and more than one non-primitive unit cells No, the answer is incorrect. 1.1 Introduction Score: 0 1.2 Crystal **Accepted Answers:** aeometry More than one primitive unit cells and more than one non-primitive unit cells 1.3 Unit cell 2) The face diagonal in a primitive tetragonal unit cell has a rotation symmetry. 1 point Classification of 4-fold latices 3-fold 🟮 1.5 Gaps in **Bravais lattices** 2-fold 1.6 Symmetry I 6-fold 1.7 Symmetry II No, the answer is incorrect. Score: 0 1.8 Classification of **Accepted Answers:** lattices on the 2-fold basis of symmetry 3) A crystal has a lattice with the following lattice parameters: a=b=c and $\alpha=\beta=\gamma=90^{\circ}$. "The 1 point crystal will definitely have cubic symmetry." True/False? 1.9 A symmetry based approach to True **Bravais lattices** © 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -In association with A project of

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0 4	
No, the answer is incorrect.	
Score: 0	
Accepted Answers:	
8) Choose the correct ascending order of effective number of lattice points per unit cell: P = Triclinic P < Orthorhombic F < Monoclinic P < Tetragonal I Q = Triclinic P < Monoclinic P < Tetragonal I = Orthorhombic F R = Orthorhombic F < Monoclinic P < Tetragonal I < Triclinic P S = Triclinic P = Monoclinic P < Tetragonal I < Orthorhombic F	1 point
P	D.
O Q	
O R	R
O s	R
No, the answer is incorrect.	r r
Score: 0	
Accepted Answers: S	
9) In Q4 above, two of the patterns are exactly identical except for the scale. Which two?	1 point
(a) and (b)	
(a) and (c)	
(a) and (d)	
(b) and (d)	
No, the answer is incorrect.	
Score: 0	
Accepted Answers: (a) and (d)	
10)f lattice points are added to the centres of the square faces of a tetragonal <i>P</i> unit cell, the resultant Bravais lattice will be	1 point
tetragonal C	
orthorhombic C	
tetragonal P	
orthorhombic P	
No, the answer is incorrect. Score: 0	
Accepted Answers: tetragonal P	
Provious Page	