Courses » Symmetry and Structure in the Solid State
Announcements Course Ask a Question Progress FAQ

## Unit 5 - Basics of <br> Symmetry 4: Space Group Description And Introduction to the International Tables of Crystallography(ITC- Vol. A).

| Register for |
| :---: |
| Certification exam |

Course
outline

How to access
the portal

Basics of Symmetry 1 : Generation of Point Groups

Basics of Symmetry 2: Detailed Understanding of 32 Point Groups

Assignment of Point Groups to Crystal Systems and Bravais Lattice

Basics of Symmetry 4:
Space Group Description And Introduction to the International Tables of Crystallography(ITCVol. A).

## Week 4- Assignment 4

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1) What is the equivalent point for the operation b glide normal to $\mathrm{c} a x i s$ ?

2 points$x, y+1 / 2,-z$
$x+1 / 2, y+1 / 2, z+1 / 2$
$x+1 / 2,-y,-z$
$x,-y, z$
Due on 2019-02-27, 23:59 IST.
As per our records you have not submitted this

No, the answer is incorrect.
Score: 0
Accepted Answers:
$x, y+1 / 2,-z$
2) Write down the equivalent point for the I centered?

2 points
$-x,-y,-z$
$x+1 / 2, y+1 / 2, z+1 / 2$
$x,-y,-z$
$x+1 / 2,-y, z+1 / 2$

No, the answer is incorrect.
Score: 0
Accepted Answers:
$x+1 / 2, y+1 / 2, z+1 / 2$
3) What is the equivalent point for the operation 21 screw along a axis?

2 points
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NPTEI Technology Enhanced Learning
 2

Space Groups 3

Quiz : Week 4Assignment 4

## Correlation

Between
Symmetry
Diagrams and Equivalent Point Diagrams.

Special Positions and Introduction to Wyckoff Notations.

Interaction
Session

## Text Transcripts

Basics of X Ray Diffraction 1

Basics of X Ray Diffraction 2

Bragg's Law in Reciprocal
Space
Structure
Determination
Methodologies 1

Structure
Determination
Methodologies 2

Powder
Diffraction
Method \&
Quantum
Crystallography

Accepted Answers:
$x+1 / 2,-y,-z$
4) What is the equivalent point for the operation $n$ glide normal to a axis?

2 points

2 poinve

No, the answer is incorrect.
Score: 0
Accepted Answers:
$x,-y, z$
6) A compound crystallizes in a space group with equivalent points at $x, y, z ;-x,-y, z ;-x, y, \quad 2$ points $z+1 / 2 ; x,-y, z+1 / 2$. Determine the Crystal systemTriclinic
MonoclinicOrthorhombic
Cubic
No, the answer is incorrect.
Score: 0
Accepted Answers:
Orthorhombic
7) A compound crystallizes in a space group with equivalent points at $x, y, z-x,-y, z-x, y, \quad 2$ points $z+1 / 2 x,-y, z+1 / 2$. Determine the Space group?


No, the answer is incorrect.
Score: 0
Accepted Answers:
Pcc2

