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NPTEL

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Courses » Symmetry and Structure in the Solid State

Announcements **Course** Ask a Question Progress FAQ

Unit 6 - Correlation Between Symmetry Diagrams and Equivalent Point Diagrams.

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(ITC-
Vol. A).

Correlation
Between

Week 5- Assignment 5

The due date for submitting this assignment has passed.

As per our records you have not submitted this **Due on 2019-03-06, 23:59 IST.**
assignment.

1) Identify the Orthorhombic point group. **2 points**

- 2/m
 23
 mm2
 2

No, the answer is incorrect.

Score: 0

Accepted Answers:

mm2

2) Identify the space group belongs to orthorhombic system. **2 points**

- C2/c
 Pnma
 F23
 C422

No, the answer is incorrect.

Score: 0

Accepted Answers:

Pnma

3) Find out maximum rotational symmetry possible for orthorhombic system. **2 points**

- 2 fold
 4 fold

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<p>Information on Space Groups.</p> <p><input type="radio"/> Details of Space Groups 1</p> <p><input type="radio"/> Details of Space Groups 2</p> <p><input type="radio"/> Details of Space Group 3</p> <p><input type="radio"/> Quiz : Week 5- Assignment 5</p> <hr/> <p>Special Positions and Introduction to Wyckoff Notations.</p> <hr/> <p>Interaction Session</p> <hr/> <p>Text Transcripts</p> <hr/> <p>Basics of X Ray Diffraction 1</p> <hr/> <p>Basics of X Ray Diffraction 2</p> <hr/> <p>Bragg's Law in Reciprocal Space</p> <hr/> <p>Structure Determination Methodologies 1</p> <hr/> <p>Structure Determination Methodologies 2</p> <hr/> <p>Powder Diffraction Method & Quantum Crystallography</p>	<p>ce De 2 fold</p> <p>4) Which of the space group will not have any special position? 2 points</p> <p><input type="radio"/> Cmm2</p> <p><input type="radio"/> Iba2</p> <p><input type="radio"/> P222₁</p> <p><input type="radio"/> P2₁2₁2₁</p> <p>No, the answer is incorrect. Score: 0</p> <p>Accepted Answers: P2₁2₁2₁</p> <p>5) Identify the space group when three mirror planes are perpendicular to each other. 2 points</p> <p><input type="radio"/> P4mm</p> <p><input type="radio"/> Fmmm</p> <p><input type="radio"/> P6/mmm</p> <p><input type="radio"/> Pmm2</p> <p>No, the answer is incorrect. Score: 0</p> <p>Accepted Answers: Fmmm</p> <p>6) Find out the possible special positions for the space group C2/c. 2 points</p> <p><input type="radio"/> 2 fold</p> <p><input type="radio"/> m</p> <p><input type="radio"/> 2/m</p> <p><input type="radio"/> All of these</p> <p>No, the answer is incorrect. Score: 0</p> <p>Accepted Answers: 2 fold</p> <p>7) An atom occupies Wyckoff position "2d" in the space group C2/m. Find out the site symmetry and multiplicity of the atom. 2 points</p> <p><input type="radio"/> m and 4</p> <p><input type="radio"/> 1 and 8</p> <p><input type="radio"/> 2 and 4</p> <p><input type="radio"/> 2/m and 2</p> <p>No, the answer is incorrect. Score: 0</p> <p>Accepted Answers: 2/m and 2</p>
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Previous Page

End

