Courses » Solid State Chemistry Announcements Course Ask a

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## Course <br> outline

How to access the portal

Practice
Week 1 : Solid
State And Solid
State Materials

Week 2 Unit
Cells And Lattices

- Lecture 6 : Unit Cells
- Lecture 7 : Conventional Unit Cell \& Primitive Unit Cell
- Lecture 8 : Bravais Lattices
- Lecture 9 : Bravais Lattices, Basis \& crystal
- Lecture 10 : Summary of week 2 and Practices
Problems
Quiz :

$$
\text { Assignment } 2
$$

## Assignment 2

The due date for submitting this assignment has passed.
As per our records you have not submitted this Due on 2019-02-13, 23:59 IST. assignment.

1) The primitive unit cell of a Bravais lattice must

1 point
(1) have exaclty one point.be the shape of parallelepiped.
0 be enclosed by three lattice translation vectors
0
be centrosymmateic
No, the answer is incorrect.
Score: 0
Accepted Answers:
have exaclty one point.
2) in 2D, the honeycomb lattice is not a Bravais lattice because

1 point
it does not satisfy long range order
it does not fill spacethe orientation of the crystal is not the same at all points.
it is identical to a rectangular lattice
No, the answer is incorrect.
Score: 0
Accepted Answers:
the orientation of the crystal is not the same at all points.
3) Which of the following shapes is NOT a valid unit cell shape for a 2D Bravais lattice

0 points
triangle
pentagon
rectangle
rhombus
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$$
\begin{aligned}
& a=b \neq c ; \gamma=60^{\circ}, \quad \beta=\alpha=90^{\circ} \\
& a=b ; \alpha=120^{\circ} \\
& \text { None of the above }
\end{aligned}
$$

No, the answer is incorrect.
Score: 0
Accepted Answers:
$a=b ; \gamma=120^{\circ}, \beta=\alpha=90^{\circ}$
9) A square lattice is shown below with 4 shaded regions marked $A, B, C$ and $D$.

The region(s) corresponding to unit cell(s) is/areA, B, C and DA, B and D only$C$ and $B$ onlyC and D only
No, the answer is incorrect.
Score: 0
Accepted Answers:
C and D only
10 The coordination number of sodium ions in a NaCl crystals is equal to
1 point


No, the answer is incorrect.
Score: 0
Accepted Answers:
6

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