Week 5 - Assignment

Due date for submitting this assignment has passed. **Due on 2016-08-28, 22:00 IST**

As per our records you have not submitted this assignment.

1) What are the first three allowed reflections for the body centered cubic materials? **1 point**
   - 100, 110, 111
   - 110, 200, 211
   - 111, 200, 220
   - 110, 111, 200

   **No, the answer is incorrect.**
   **Score:** 0
   **Accepted Answers:**
   110, 200, 211

2) ______ law has to be satisfied by a beam to undergo diffraction
   **Accepted Answers:**
   Bragg’s
   (Type: String) Bragg’s
   (Type: String) Braggs

   **No, the answer is incorrect.**
   **Score:** 0
   **Feedback:**
   Bragg’s

3) Let two materials having same crystal structure is analysed using XRD. What are the parameters that distinguishes both of the reflections? **1 point**
   - θ and λ
   - θ and d
   - d and λ
   - None of the above

   **No, the answer is incorrect.**
   **Score:** 0
   **Accepted Answers:**
   θ and d

4) What information one can obtain from a material by using TEM? **1 point**
   - Crystal structure
   - Lattice repeat distance
   - Crystallographic symmetry

https://onlinecourses-archive.nptel.ac.in/noc16_mm06/unit?unit=32&assessment=49
5) ________ type of source gives better contrast than thermionic emission electron source

- All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above

6) Comparing SEM and TEM, which of the following statement is true?

- TEM has no depth sensitivity
- SEM has no depth sensitivity
- TEM has more depth sensitivity than SEM
- TEM has less depth sensitivity than SEM

No, the answer is incorrect.
Score: 0

Accepted Answers:
TEM has no depth sensitivity

7) What are the inelastic scattering processes that occur in TEM?

- Generation of x rays
- Generation of secondary electrons
- Collective interaction with many atoms
- All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above