

Fundamentals of X-ray diffraction and Transmission electron microscopy - - Unit 5 - Week 4

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

5) A sample having Iron and Tungsten in equal proprtions is subjected to X-ray diffraction. The **1 point** diffraction pattern will have the peaks corresponding to both the elements. Which element will have high intensity peaks?

Iron	f
Tungsten	
Both will have qual intensity peaks	<b>Y</b>
None of the above	
No, the answer is incorrect.	
Score: 0	•
Accepted Answers: Tungsten	in
6) Quantitative analysis by X-ray diffraction is based on?	1 pc 👌
Position of peaks in the pattern	
Intensity of peaks in the pattern	
<ul> <li>Width of peaks</li> </ul>	
Number of peaks	
No, the answer is incorrect.	
Score: 0	
Accepted Answers:	
Intensity of peaks in the pattern	
7) For the detremination of residual stress by X-ray diffraction, it is assumed that the sample	1 point
S	
Isotropic	
Anisotropic	
Stationary	
Single Crystal	
No, the answer is incorrect.	
Score: 0	
Accepted Answers: Isotropic	
8) Which among the following methods is used for the detremination of residual stress in a sample?	1 point
sin (psi) method	
sin (theta) method	
sin <sup>2</sup> (psi) method	
sin <sup>2</sup> (theta) method	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
sin <sup>2</sup> (psi) method	
9) In a Bragg-Brentano geometry, the divergent and diffracted beams get focused at?	1 point
Two different circles	
Same point	
Same line	

A fixed radius from the specimen

26/07/2020

Eundamontals of X ray	diffraction and	Transmission	alactron	microscony	Linit 5	Wook A
Fundamentals of A-ray	unnaction anu	ITALISTILISSION	election	meroscopy	Unit J -	week 4

No, the answer is incorrect. Score: 0

## **Accepted Answers:**

A fixed radius from the specimen

10)n a Bragg-Brentano diffractometer, what is the nature of the relative motion between the X- **1** point ray source and detector?

- Both rotates in same direction by same angle with respect to the specimen
- Both rotates in same direction by different angle with respect to the specimen
- Both rotates in opposite directions by same angle with respect to the specimen
- Both rotates in opposite directions by different angle with respect to the specimen

## No, the answer is incorrect. Score: 0

## **Accepted Answers:** Both rotates in opposite directions by same angle with respect to the specimen

**Previous Page** 

## © 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -



In association with



Funded by

Government of India Ministry of Human Resource Development

Powered by



y D in

g

End