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6. Why should we hire you? (con...)

Are they likely to need another skill set as they grow as a company? Or maybe you have skills that you would use in another job description they are looking to fill? You can help out with those advantages until they find someone (or be a backup to the person they hire).

Here you have done a path already that they are currently using? Having "Seasoned" to offer them is a very strong plus for a job candidate.

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9. What are your salary expectations?

When completing your preparations for the interview, always have this question in the back of your mind. Have a look at the average salary for someone in this industry, area, and who possesses similar skills to yourself, and you should get a basic idea. But remember: this is only the first interview. You haven't been offered the job. There's no need at this stage to be try and begin negotiations. Giving a broad salary range will usually be enough to move on, but be prepared to back it up if you need to.

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28. What is the most difficult situation you have faced?

Here you should be ready with your real life story. The question looks for information on two fronts: How do you define difficulty and how did you handle the situation? You should be able to clearly lay down the road map for solving the problem, your ability to perform task management and maintain good interaction with your team members and other peers. It is advisable to close by highlighting the lesson learnt out of the incident.



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36. Describe a time when your workload was heavy?

I remembered when I was still working for ABC company, the time when it was planning to take over another company. there was much work to do, dealing with internal workforce, workforce of the acquired company, cultural differences, maintaining the relationship with clients. That was quite a stressful situation, however, we managed to get over it very successfully.

14. What experience do you have in this field?

Hopefully if you're applying for this position you have bags of related experience, and if that's the case you should mention it all. But if you're switching careers or trying something a little different, your experience may initially not look like it's matching up. That's when you need a little boost creativity to match the experiences required with the ones you have. People skills are people skills after all, you just need to show how customer service skills can apply to internal management positions, and so on.



233-236): substitutional omission (or defect) interstitial 19. 53-60) and be able to index relatively simple crystal forms (cf. What is a ray velocity surface? Define retardation (optically speaking) and explain its relation to (a) phase difference and interference color, (b) thickness (length of optical path), and (c) refractive indices. 4, 5, & 13). What is the relation between velocity, wavelength, and frequency for light? 22. Explain with detailed drawings. Hexagonal or Tetragonal 21 Round 1 – Question 8 What is another name for the C-axis in a uniaxial indicatrix? K., p. 9. Explain how dispersion occurs in biaxial minerals, and show typical effects on the respective interference figures. Draw examples of indicatrices for uniaxial positive and negative minerals. 279-288): Laue method, rotation method, Debye-Scherrer camera method, powder diffractometer method. Describe what the crystalline material will look like, texturally speaking. Discuss compositional variations (e.g., between end members) and describe substitutions of the major cations in the following mineral groups : feldspars pyroxenes amphiboles olivines garnets (you should be generally familiar with all of these examples and know the end-member chemical formula). 208) concerning bonding types. 9) Clausius-Claypryron slope (KH, ch. 7. 7.3) is related to mathematical derivation of 2V from measured refractive index values. 6 Round 1 – Question 4 When the angle of incidence exceeds the critical angle of refraction, what will happen? 14 Round 1 – Question 1 What type of energy is light? Isotropy 20 Round 1 – Question 7 Name a type of crystal system that displays uniaxial optics as shown here. Provide mineral examples for these concepts. 8 Round 1 – Question 6 A mineral in which the index of refraction (n) is the same in all vibration directions is said to portray what kind of optical properties? What is dispersion? Electromagnetic Radiation 15 Round 1 – Question 2 What property of light does the amplitude (A) control? 20). Explain what uniaxial interference figures are, how they are observed, and draw optic axis and flash figures for both uniaxial negative and positive crystals. This is best done for a specific mineral group (e.g., plagioclases, pyroxenes, olivines). Discussion (0)Discuss 1788. 13 End of Round 1 Pass your answers to the team on your right for grading. 153) pseudomorph (KH, p. Draw cross sections of ray velocity surfaces for isotropic, uniaxial positive, and uniaxial negative materials assuming that the crystallographic c-axis is both parallel and perpendicular to the plane of your paper. Sketch and label the following biaxial interference figures: Bxo, Bxa, OA, ON (flash). (e.g., native elements, oxides, hydroxides, halides, etc.) 15. Explain polarization and provide two examples of how light can be polarized. (high) Relief 19 Round 1 – Question 6 A mineral in which the index of refraction (n) is the same in all vibration directions is said to portray what kind of optical properties? Explain why Becke lines form (using drawings) and show how they are used to determine relative refractive indices. Category: Short answersHow are opaque minerals studied in thin sections? 30. Derive Bragg's law for x-ray diffraction (XRD). 211) or sandine (K. p. Determine point group symmetry for external morphology of wooden crystal models (cf. 16. Explain isotropic and anisotropic. Explain the "phase rule" and be prepared to apply it to simple phase diagrams, such as that for the aluminosilicates (andalusite, sillimanite, kyanite) or silica (a-b quartz, cristobalite, tridymite, etc.). Score: 0% Rank: Correct Answer: Start Quiz >> 1785. 214-216, Ch. 13). Sketch this effect for both white and monochromatic light passing through a crystal prism. 15-16) crystal systems (cf. Explain immiscibility and when/why it occurs - again with respect to specific minerals (cf. K., exercises 2 and 3 for practice examples). Draw examples of typical cleavage fragments you are likely to see in isotropic and uniaxial materials. disadvantages; see N 79-80, 99-104). KH, pp. Show vibration directions in each, along with positions of optic directions, optic axes, isogyres, isochromes, etc. Give some details as to why exsolution occurs and how and why the coexisting phases vary in composition along the solvus curve as temperature decreases. 9) chemical component (KH, ch. 1. 12 Round 1 – Question 10 A B C A mineral sectioned parallel to which plane (A, B, or C) in this crystal will show maximum birefringence? 19. 9) 22. How would you use the color chart to estimate birefringence in a mineral in a typical thin section? 27. Also explain under what conditions each method can be applied (i.e., advantages vs. The most efficient approach might be to split up the questions among yourselves to provide frameworks that you can share and embellish individually. 9) liquidus (KH, ch. 17. How much light is slowed down (relative to the speed of light in a vacuum (or air)) 17 Round 1 – Question 4 When the angle of incidence exceeds the critical angle of refraction, what will happen? 8. KH, ch. 4) x-ray diffraction (KH, ch. 35) I suggest you prepare brief discussions/answers to the above questions and develop precise definitions for the terms listed above. Define birefringence. What do the terms bivariant, univariant, and invariant mean (again relate these to a simple phase diagram)? Category: Short answersExplain in brief the use of relative index and relief. 29. Explain how a thin section is made (Nesse, appendix A) Category: Short answersWrite short notes on the following Anisotropic minerals Uniaxial minerals Biaxial minerals Discussion (0)Discuss 1789. Explain pleochroism and pleochroic formulae (N 104). Explain the function of each. 5, 9) entropy (KH, ch. Sketch and label all relevant parts of the biaxial (-) and (+) principal sections (X-Z, Y-Z, and X-Y planes). 9). 177) Miller indices (cf. 18. 9) 23. List and describe at least 4 methods for determining accurate refractive indices. 31. What are the advantages or disadvantages of each? 35-36) Bravais lattices (cf. Select the components that best describe the compositional systems containing the above minerals, aluminosilicates, silica minerals, and/or carbonates and plot their end member compositions on simplified binary, ternary, or quaternary projections (molar basis). 5 Round 1 – Question 3 The index of refraction of a particular substance is a measure of what? where appropriate. (K. 32. What is the relation between these properties and crystal structure? KH, p. What other types of bonding are represented in silicate minerals? What is their relation to point groups, space groups, or Bravais lattices (see definitions, below)? E.g., (001), (111), (110), (100), (0001), prismatic cleavage, polychromatic light source). p. How does white light differ from monochromatic light? C In order to continue enjoying our site, we ask that you confirm your identity as a human. The following are examples of the kinds of questions that you should be able to answer readily. 161) phase diagram (KH, ch. Discuss the structural classification system for silicate minerals (based on combinations of [SiO4]4- tetrahedra); list the subgroups and give at least one mineral example (with chemical formula) for each (cf. Draw realistic dispersion curves for a hypothetical crystal. Be able to relate cleavages and crystal faces to corresponding optic parameters - e.g., using standard 3-D drawings of crystals (as in N ch 9-15). 9) Herman-Mauguin symbols (cf. Explain in general terms of atomic structure (KH Ch. 4). List the crystallographic classes corresponding to isotropic, uniaxial, and biaxial materials. Refer to Table 4.11 (KH, p. For uniaxial crystals, define ordinary and extraordinary rays, and explain how they originate. 23. 3. Ex 14, 15). Describe at least four methods for determining 2V angle in biaxial minerals (Tobi, Kamb, Mertie diagrams, Wright method); note that the Mertie diagram (Nesse, fig. K., pp. 9) polymorph (KH, p. For the other mineral groups we have covered in the lab, what is the prevailing style of bonding (cf. Fast ray (lowest n) 23 Round 1 – Question 10 A B C A mineral sectioned parallel to which plane (A, B, or C) in this crystal will show maximum birefringence? 4. Try generating the point-group arrangements on the circular diagrams given the presence of various vertical rotation axes (one at a time, of course) either || to mirrors or normal to other rotation axes. The light will reflect 18 Round 1 – Question 5 What optical property does the mineral on the right (B) portray? How are these different classification tools used in developing a systematic concept of mineralogy? Be familiar with the concept of Miller indices (K. What is the effect of pressure and temperature on Gibbs free energy (G)? 33. This should not be as formidable as appears, as we have been emphasizing the above topics throughout the semester. 9) 24, 12, 15, 10. Thank you very much for your cooperation. 2 Determine point group symmetry for blocks having various decorations on their sides - examples attached (cf. Discuss how it enables determination of d-spacings within mineral structures. 9 Round 1 – Question 7 Name a type of crystal system that displays uniaxial optics as shown here. Discuss (list) the crystal systems and their distinctions in terms of symmetry. Note that the system required (and the components too) will depend on which mineral groups you choose to consider. See K., p. Again consider mixed bonding types. Define refractive index. Questions likely will involve application of concepts or principles rather than request simple recitation of facts. Discussion (0)Discuss 1786. Be able to do this for grains in both the extinction and 45° positions (N 87-99). 10 Round 1 – Question 8 What is another name for the C-axis in a uniaxial indicatrix? Explain how temperature and crystal structure affect solid solutions of (a) pyroxenes, and (b) alkali feldspars (cf. 13. Given simple crystal structure diagrams (e.g., K. Give at least 3 examples of materials with each property. Explain relations between biaxial indicatrices and crystallographic axes for orthorhombic, monoclinic, and triclinic minerals (N 105-107, handouts). Discussion (0)Discuss 1787. What is the basic difference between orthoscopic and conoscopic observation? Define optic sign in terms of both light velocity and refractive index. What is Snell's law and why is it useful? How do responses of G to P, T affect mineral stabilities? Given certain types of mineral material (small well-formed single crystal, massive lump of poorly formed mineral, mineral with highly-developed basal cleavage such as mica), what kind of data results from each of these methods? 7 Round 1 – Question 5 What optical property does the mineral on the right (B) portray? Category: Short answersExplain how 'Becke' test is done. 20. 5. 6. Give at least two mineral examples for each. Become familiar with the parts of a petrographic microscope and identify them on a drawing. OPTICAL MINERALOGY TRIVIA!! 2 Rules Three rounds 10 questions per round Pass answers to team to right for grading 3 Round 1 – Question 1 What type of energy is light? 26. 150-151) point group (cf. K., ex. 28. 4 Round 1 – Question 2 What property of light does the amplitude (A) control? 12. Ex 13), discuss the various symmetry operators present (rot- and screw-axes, mirrors, glides), show their locations, and give the space group symbol consistent with these operators - see diopside (K., p. The crystallography exam will include some definitions and at least five questions taken from above. 236-240; 321, 325-326). 35). (KH, ch. 11 Round 1 – Question 9 In a positive uniaxial indicatrix will light vibrating in the o direction be the fast or slow ray? 14. What factors control/affect the magnitude of ionic radii? 11. The concepts of electrostatic (ionic) bonding and ionic radii are widely used to describe structures of minerals (especially the silicates) (KH Ch. 4). What does nD indicate? Explain the principle of each method using drawings. 4): hardness cleavage melting point density (specific gravity) tenacity 25. 2. (e.g., dispersion method, double dispersion method [using temperature variation], refractometry, monochromatic vs. What is the retardation for isotropic minerals? Intensity or brightness 16 Round 1 – Question 3 The index of refraction of a particular substance is a measure of what? Optic Axis 22 Round 1 – Question 9 In a positive uniaxial indicatrix will light vibrating in the o direction be the fast or slow ray? Use the relevant phase diagrams to illustrate. 9) Gibbs free energy (KH, ch. Be familiar with the relationship of Hermann-Mauguin symbols to coordinate axes in crystals - know the hierarchical system by which the symbol elements are assigned (cf. Category: Short answersMention three types of extinction mentioning one mineral type in each Discussion (0)Discuss Secondary Subjects University Courses 1 IT'S TIME FOR... Given a representative space group symbol, be able to specify the crystal system, define the symmetry operators present, and discuss their relation to the crystal axes and to each other. Give mineral examples and especially relate to specific parts of the crystal structures (e.g., amphiboles, micas, clay minerals). 9) mineral phase (KH, ch. Discuss how mineral physical properties may be determined or controlled by crystal structure and/or chemical composition; give specific mineral examples for each (KH, ch. 21. 7) chemical system (KH, ch. How do effective ionic radii change with atomic structure or with P, T, coordination, ionic charge, structural site, etc.? 9) molar volume (KH, ch. However, it is unlikely that the quiz will have questions exactly like those given below. K., pp.15-16, 87-86) space group (cf. 1. Describe substitutional solid solutions in terms of structural, P, T effects. Include optic directions, optic axes, Bxa, Bxo, optic normal, 2V angle, etc. Give mineral examples for each. Precisely, what is a solid solution? Discuss the three main types of solid solution and provide mineral examples for each (KH, pp. Understand how symmetry operators work and be able to develop point group representations (e.g., dots/circles on a stereographic projection). 10-16, 87-88, 174-182). 11. For the Crystallography Exam, I will prepare specific questions from this material (and may take some of them more or less directly). 5, 9) solvus (KH, ch. Think about the kinds of optical characteristics you could observe for specific cleavage sections of isotropic and uniaxial crystals. How is this useful? The following XRD methods are described in KH (pp. KH, Ch. 4, 10, 11, etc.)? Explain the types of extinction expected in these examples. 9) miscibility gap (KH, ch. Define extinction and provide drawings to explain this phenomenon. 9) solidus (KH, ch. What are "mineral facies" diagrams and how are they affected by changing P, T, bulk composition? 209) structure diagrams. Definition of terms - you should develop good precise definitions of the following: mineral crystal classes (cf. Define the following terms and provide sketches where appropriate: isochromes isogyres pleochroism first order red melatrope sign of elongation length-fast and length-slow 25. Be able to define each of the components listed in the #25 above (N ch. 20-27, examples in exercise 2) - this determines the crystal class as well.

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