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NPTEL

reviewer4@nptel.iitm.ac.in ▼

Courses » Fluid Inclusions in Minerals: Principles, Methodology, Practice and Applications

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Week 1 Assignment 1

Course outline

How to access the portal

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Assignment Solution

Due on 2018-08-22, 23:59 IST

1. Define 'fluid'. Write in not more than 50 words, the necessity and importance of the study of fluids in Geology. **[2 marks]**
2. How would you identify a fluid inclusion in a mineral and distinguish it from a mineral inclusion? **[2 marks]**
3. What are the mineral phases in which you can study fluid inclusions? **[2 marks]**
4. Why is it not always possible to estimate the volume proportions of liquid and vapour in an aqueous biphasic inclusion? **[2 marks]**
5. What is a fluid inclusion and what information can be deduced from their characterisation? **[2 marks]**
6. What methods or, techniques are usually adopted to analyse fluid inclusions? **[2 marks]**
7. Explain the mechanism of fluid entrapment during crystal growth with sketches. **[2 marks]**
8. What causes the dark rim around the vapour bubble in a fluid inclusion under the microscope and how does its thickness vary with respect to the different geometry of the bubbles? **[2 marks]**
9. Are all solid phases in a fluid inclusion daughter crystals? Justify your answer with proper arguments. **[2 marks]**
10. What do you mean by negative crystal shape of fluid inclusions? **[2 marks]**
11. What assumptions need to be taken in a fluid inclusion study and why? **[2 marks]**
12. Define the terms Primary inclusion, Pseudo secondary inclusion and Secondary inclusion? **[2 marks]**
13. Cite a process where crystals do grow in the solid-state environment. What is the scenario for fluid inclusion entrapment in such case? **[2 marks]**

Due Date Exceeded.

As per our records you have not submitted this assignment.

