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NPTEL

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Courses » Phase Diagrams in Materials Science and Engineering Announcements Course Ask a Question Progress Mentor

Unit 13 - Week 12

Course outline

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- Lecture 50 : Three Phase Equilibria in Ternary Systems - I
- Lecture 51 : Three Phase Equilibria in Ternary Systems - II
- Lecture 52 : Solidification Behaviour of Ternary Alloy
- Lecture 53 : Three Phase Equilibria
- Lecture 54 : Ternary Four Phase Equilibria - I
- Lecture 55 : Ternary Four Phase Equilibria - II
- Quiz : Week 12 Assignment 12

Week 13

Assignment Solutions

Week 12 Assignment 12

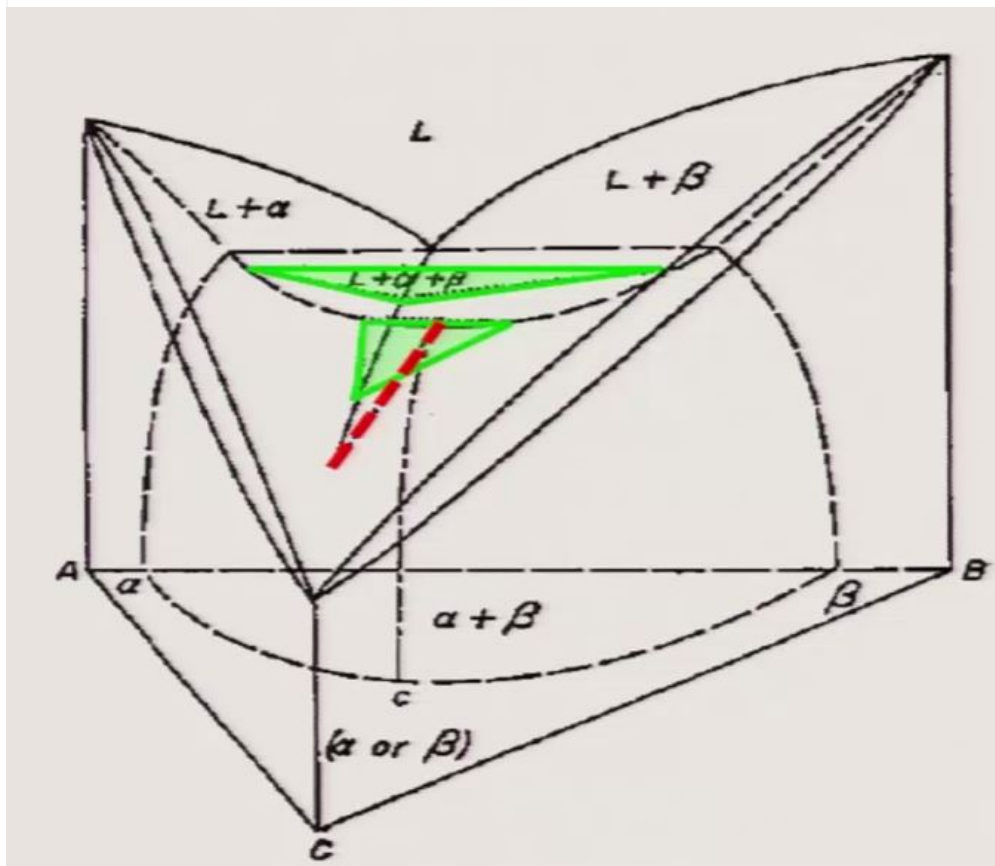
The due date for submitting this assignment has passed.

Due on 2016-04-12, 23:55 IST.

Submitted assignment

1) What are the three binary systems shown in the diagram?

2 points



- 1 Isomorphous and 2 eutectic
- 2 Isomorphous and 1 eutectic
- 2 Isomorphous and 1 peritectic
- 1 Isomorphous and 2 monotectic

No, the answer is incorrect.

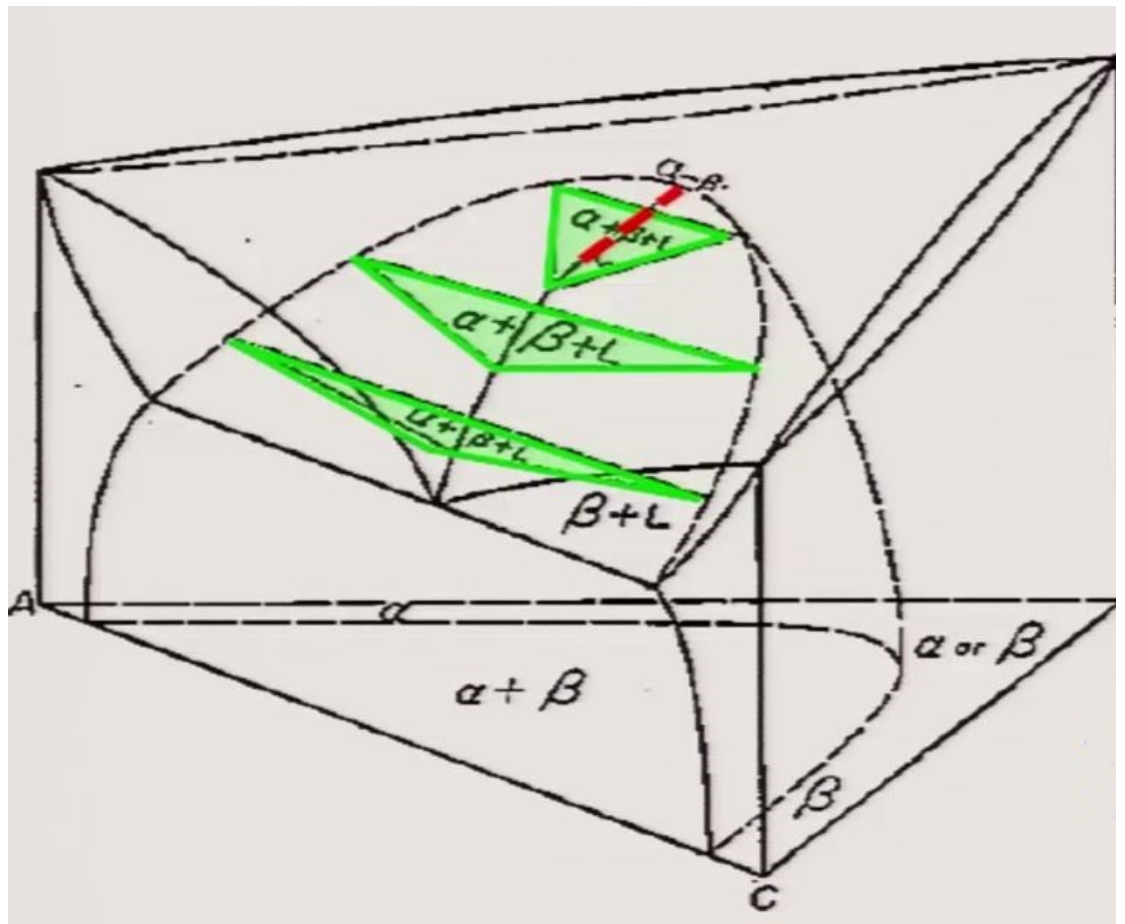
Score: 0

Accepted Answers:

2 Isomorphous and 1 eutectic

2) What are the three binary systems shown in the diagram?

2 points



- 2 Isomorphous and 1 Monotectic
- 2 Isomorphous and 1 Eutectic
- 3 Isomorphous
- 1 Isomorphous and 2 eutectic

No, the answer is incorrect.

Score: 0

Accepted Answers:

2 Isomorphous and 1 Monotectic

3) What is the reaction for ternary eutectic?

2 points

- $L_1 + L_2 \rightarrow \alpha + \beta$
- $L + \alpha + \beta \rightarrow \gamma$
- $L \rightarrow \alpha + \beta + \gamma$
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

$L \rightarrow \alpha + \beta + \gamma$

4) What is the reaction for ternary peritectic?

2 points

- $L_1 + L_2 \rightarrow \alpha + \beta$
- $L + \alpha + \beta \rightarrow \gamma$
- $L \rightarrow \alpha + \beta + \gamma$
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

$L + \alpha + \beta \rightarrow \gamma$

5) Bi-Sb-Pb system has 3 binary systems. What are they?

2 points

- 1 Isomorphous and 2 Monotectic
- 1 Monotectic, 1 Eutectic and 1 Isomorphous
- 1 Eutectic and 2 Isomorphous
- 1 Isomorphous and 2 Eutectic

No, the answer is incorrect.

Score: 0

Accepted Answers:
 1 Isomorphous and 2 Eutectic

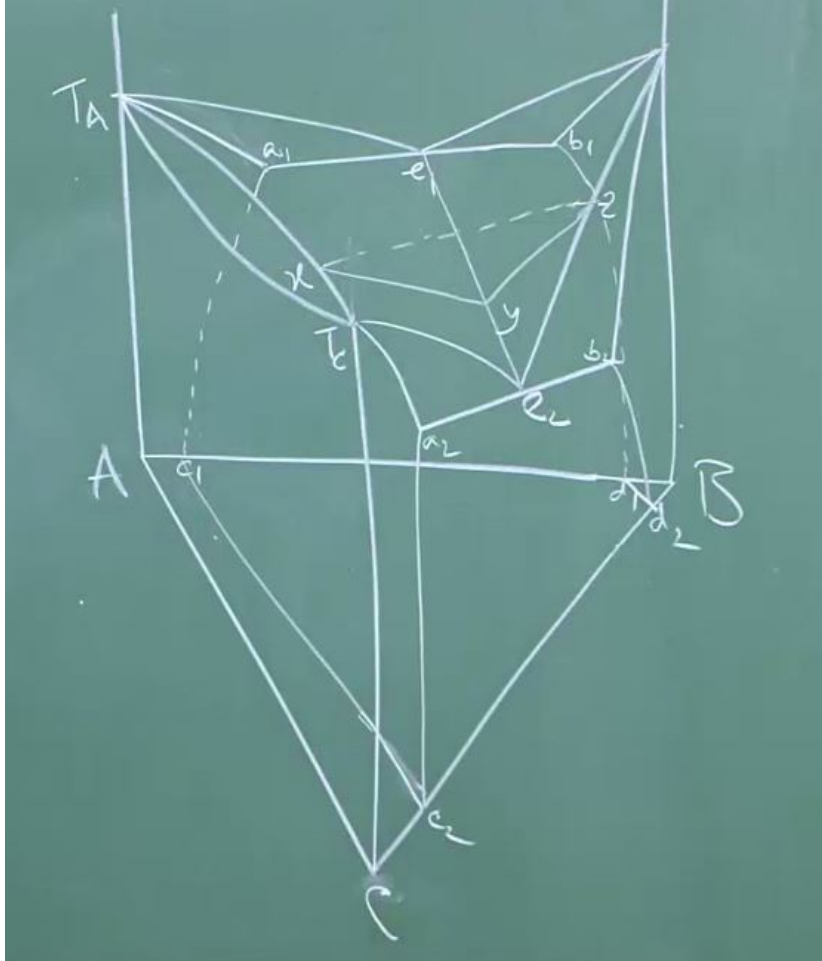
6) What are the maximum number of phases than can co-exist in a ternary system? 2 points

- 1
- 2
- 3
- 4

No, the answer is incorrect.
Score: 0

Accepted Answers:
 4

7) How many two phase region(s) are there in the following phase diagram? 2 points



- 1
- 2
- 3
- 4

No, the answer is incorrect.
Score: 0

Accepted Answers:
 3

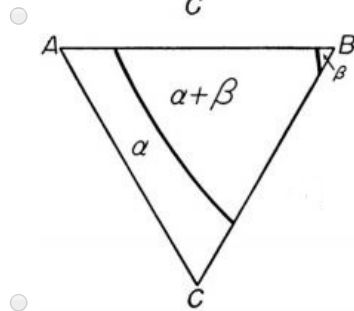
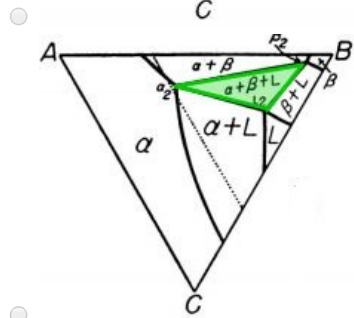
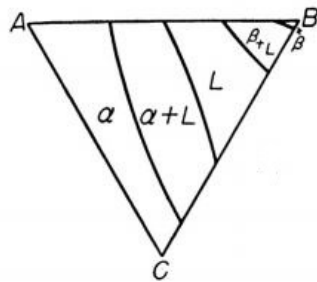
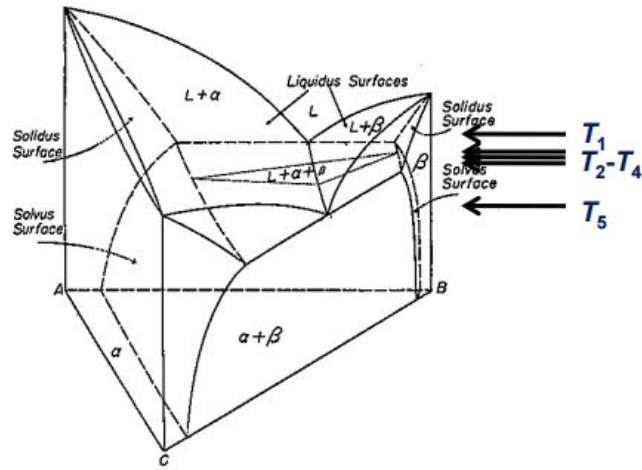
8) In the above question, how many three phase region(s) are there? 2 points

- 1
- 2
- 3
- 4

No, the answer is incorrect.
Score: 0

Accepted Answers:
 1

19) Which of the following shows an isothermal section at T1 in the following phase diagram ? 2 points

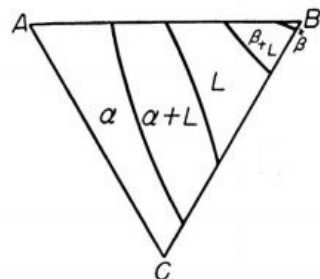


None of these

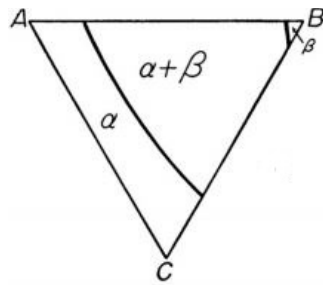
No, the answer is incorrect.

Score: 0

Accepted Answers:



10) In the above phase diagram, the following isothermal section is at which temperature? 2 points



- T1
- T2
- T3
- T4
- T5

No, the answer is incorrect.

Score: 0

Accepted Answers:

T5

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