



Unit 11 - Week 10

Course outline

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Week 10

● Lecture 40 : Alloyed Cast Iron

● Lecture 41 : Phase Diagram for different Solid State Reaction

● Lecture 42 : Phase Diagram of Ceramic

● Lecture 43 : Ternary Phase Diagram-I

● Lecture 44 : Ternary Phase Diagram-II

○ Quiz : Week 10 Assignment 10

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Week 10 Assignment 10

The due date for submitting this assignment has passed. **Due on 2016-04-04, 23:55 IST.**

Submitted assignment

1) In gray cast iron, carbon is present in the form of 2 points

- cementite
- flakes
- free carbon
- spheroids

No, the answer is incorrect.

Score: 0

Accepted Answers:

flakes

2) White cast iron contains carbon in the form of 2 points

- free carbon
- flakes
- cementite
- ferrite

No, the answer is incorrect.

Score: 0

Accepted Answers:

cementite

3) Annealing of white cast iron results in production of 2 points

- malleable iron
- nodular iron
- gray iron
- none of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

malleable iron

4) Grey cast iron 2 points

- Contains 1.7 to 3.5 % carbon in free state and is obtained by the slow cooling of molten cast iron
- is also known as chilled cast iron is obtained by cooling rapidly

Week 13

Assignment
Solutions

- is produced by annealing process. It is soft, tough and easily machinable metal
- none of the above

No, the answer is incorrect.**Score: 0****Accepted Answers:***Contains 1.7 to 3.5 % carbon in free state and is obtained by the slow cooling of molten cast iron*

5) The Statement "White cast iron, if cooled very slowly from melting, will become grey cast iron as the carbon atoms inside it bond together. Grey cast iron, by contrast, will keep its form if cooled slowly, but will become white cast iron if cooled very fast." **2 points**

- True
- False

No, the answer is incorrect.**Score: 0****Accepted Answers:***True*

6) Which iron under cast iron category? **2 points**

- Grey iron
- White iron
- Ductile iron
- Malleable iron
- All above

No, the answer is incorrect.**Score: 0****Accepted Answers:***All above*

7) Mullite is a good, low cost refractory ceramic. composition is----- **2 points**

-
- $3Al_2O_3 \cdot 2SiO_2$
- $2Al_2O_3 \cdot 3SiO_2$
- $Al_2O_3 \cdot SiO_2$
- none

No, the answer is incorrect.**Score: 0****Accepted Answers:** *$3Al_2O_3 \cdot 2SiO_2$*

8) The statement "Normally, Pressure is not a viable variable in ternary phase diagram construction, and is therefore held constant at 1 atm" **2 points**

- True
- False

No, the answer is incorrect.**Score: 0****Accepted Answers:***True*

9) In ternary phase diagram, if degree of freedom is zero ($F=0$). Maximum number of phases-- **2 points**
---- will co-exist

- 3
- 4

- 0
 not determinable

No, the answer is incorrect.

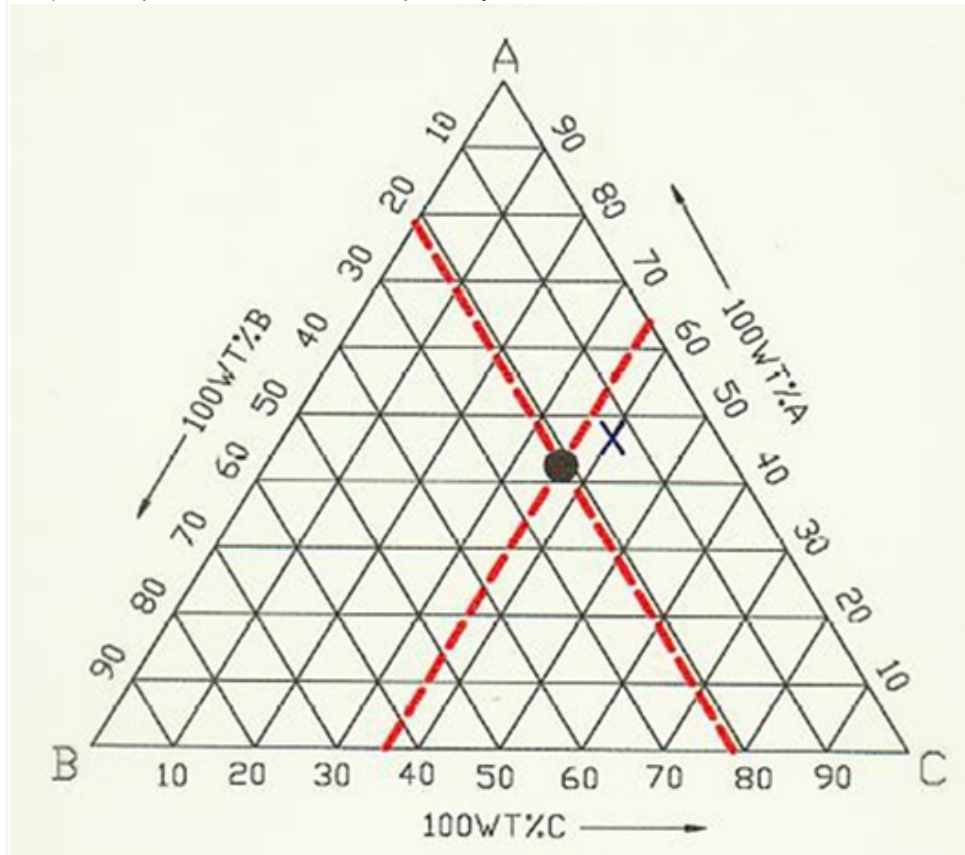
Score: 0

Accepted Answers:

4

10) The composition of A, B and C respectively at cross section of red lines.

2 points



- 66%A, 22%B, 12%C
 0%A, 22%B, 78%C
 78%A, 0%B, 22%C
 42%A, 22%B, 36%C

No, the answer is incorrect.

Score: 0

Accepted Answers:

42%A, 22%B, 36%C

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