Week 8 Assignment 8

The due date for submitting this assignment has passed. Due on 2016-03-15, 23:55 IST.

Submitted assignment

1) Diffusion less transformation is ---------------transformation
   - Martensite
   - Pearlite
   - Bainite
   - All

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

2) Carbon concentration in Hypo and Hyper eutectoid steel are--------------respectively.
   - 0.2 and 0.8
   - Less than 0.8 and greater than 0.8
   - 0.8 and 1
   - None

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Less than 0.8 and greater than 0.8

3) Sharp edge of shaving blade made of -----------Steel.
   - Hypoeutectic steel
   - Low carbon Steel
   - Hypereutectic steel
   - All Above

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Hypereutectic steel

4) The treatment in which the brittleness of martensite is reduced is called which one of the following
   - Aging
   - Annealing
   - Austenitizing

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

5) Which one produces the most rapid cooling rate in the following?  
- Air
- Brine
- Oil
- Pure water

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

6) Tempering is a heat treatment applied to hardened steels that is best defined as which of the following (one correct answer):
- heating and soaking at a temperature above the austenitizing level followed by rapid cooling
- heating and soaking at a temperature above the austenitizing level followed by slow cooling
- heating and soaking at a temperature below the austenitizing level followed by rapid cooling
- heating and soaking at a temperature below the austenitizing level followed by slow cooling

No, the answer is incorrect.
Score: 0
Accepted Answers:
heating and soaking at a temperature below the austenitizing level followed by slow cooling

7) Martensite can best be defined as which one of the following
- A mixture of ferrite and carbide phases obtained by rapid cooling of austenite
- A mixture of ferrite and carbide phases obtained by slow cooling of austenite
- A phase consisting of an iron-carbon solution whose composition is the same as the austenite from which it was derived
- A solution of cementite in ferrite obtained by rapid cooling of austenite

No, the answer is incorrect.
Score: 0
Accepted Answers:
A phase consisting of an iron-carbon solution whose composition is the same as the austenite from which was derived

8) Which transformation start after nucleation of ferrite phase?
- Martensite transformation
- Pearlite Transformation
- Bainite Transformation
- All

No, the answer is incorrect.
Score: 0
Accepted Answers:
Bainite Transformation

9) Which of the following factors increases hardenability of a metal?
- Heat treatment
- Alloying elements
- High Carbon content
- Fine grain size
10) Which statement is true for martensite transformation?

- The cooling temperature must sufficiently low in order to prevent carbon diffusion.
- Martensite transformation start at certain low temperature range, the transformation is termed athermal transformation i.e. temperature-dependent transformation.
- As long as the temperature is maintained, there will be no further martensite transformation.
- All Above

No, the answer is incorrect.
Score: 0
Accepted Answers:
Alloying elements