Assignment 9	
1) The hardness of martensite in steel is a function of C content Cooling rate Ni content nose location	1 point
Accepted Answers: C content 2) Martensite tranformations are diffusion controlled are shear process yield two product of different compositions none of these	1 point
Accepted Answers: are shear process 3) The c/a ratio of martensite depends on the concentration of Ni Mn C N	1 point
Accepted Answers: C 4) Bainite has the same morphology as austenite a non-lamellar mophology of ferrite and cementite the coarser morphology among all the product from austenite none of these	1 point

Accepted Anguara	
Accepted Answers: a non-lamellar mophology of ferrite and cementite	
5) When austenite is cooled to large supersaturations below the nose of the pearlite transformation curve a new eutectoid product called	1 point
Martensite Bainite	
pearlite	
Retained austenite	
Accepted Answers: Bainite	
6) Formation of martensite is a transformation.	1 point
shear	
displacive	
diffusionless	
all of the above	
onone of the above	
Accepted Answers: all of the above	
7) In which of the following case, we get bainite?	1 point
slow cooling from 900 degree Celsius to room temperature in a water bath fast cooling from 900 degree Celsius to room temperature in a water bath	
quench from 900 degree Celsius to 400 degree Celsius in an oil bath and holding	ng it for long
time	
onone of these	
Accepted Answers: quench from 900 degree Celsius to 400 degree Celsius in an oil bath and holding it fo	or long time
8) Martensite has structure.	1 point
lenticular	
irregular	
cuboidal	
leaf like	
Accepted Answers:	
lenticular	
9) Bainite has structure.	1 point
lenticular	
leaf like	
cuboidal	
basket weave	

Accepted Answers: leaf like			
10)Crystal structure of austenite and martensite are _	and res	pectively.	1 point
○ BCC, BCT			
FCC, BCC			
FCC, BCT			
BCT, FCC			
Accepted Answers:			
FCC, BCT			