Assignment 10		
1) Recrystallization temperature of pure materials temperature)	(in terms of homologous	
0.1		
0.2		
0.3		
0.4		
Accepted Answers:		
0.3		
2) Decrease in free energy during recovery is attributed to	0	
excess point defects		
excess dislocations		
grain boundaries		
all		
Accepted Answers:		
excess point defects		
3) Decrease in free energy during recrystallization is attributed	buted to	
excess point defects		
excess dislocations		
grain boundaries		
ali		
Accepted Answers:		
excess dislocations		
4) Driving force for grain growth process		î
stored energy of cold work		
grain boundary energy		
both		
stacking fault energy		

0

5) Driving force for recrystallization process	1
	1
<ul> <li>stored energy of cold work</li> <li>grain boundary energy</li> </ul>	
<ul> <li>grain boundary energy</li> <li>both</li> </ul>	
<ul> <li>stacking fault energy</li> </ul>	
Accepted Answers: stored energy of cold work	
6) Methods to retard grain growth	1
solute drag	
pinning action of particles	
both	
none	
Accepted Answers:	
<i>both</i> 7) Higher the degree of deformation, recrystallization temperature is	1
<ul> <li>higher</li> <li>lower</li> </ul>	
either higher or lower	
Accepted Answers: lower	
8) Recrystallization rate varies in the following manner with temperature	1
linearly increasing	
Inearing decreasing	
exponential	
logarithmic	
Accepted Answers:	
exponential	
<ol> <li>For a particular temperature, the minimum temperature at which complete recrystall will occur within approximately one hour</li> </ol>	lization 1
homologous temperature	
equicohesive temperature	
curie temperature	
recrystallization temperature	

recrystallization temperature

## Phase Transformation in Materials - - Unit 11 - Week 10

10 During recrystallization,

- tensile strength decreases
- ductility increases
- both
- none

Accepted Answers:

both