

班級：_____學號：_____姓名：_____成績：_____

1. Define the difference between elastic and plastic deformation in terms of the effect on the crystal lattice structure.
2. Define the recrystallization temperature for a metal.
3. Describe the difference between preferred orientation and mechanical fibering.
4. Describe the difference between brittle and ductile fracture.
5. Define residual stress.
6. List reasons why density is an important material property in manufacturing.
7. Describe the engineering significance of the existence of a eutectic point in phase diagrams.
8. What are superalloys? Why are they so named?
9. Distinguish between composites and alloys.
10. What are the carbon contents of low-carbon, medium-carbon, and high-carbon steels, respectively?