Basic manufacturing processes

Assignment 1

Last date of submission 08-02-16

1) **Compare following properties:**
   (a) **Brittleness and Ductility**
   (b) **Resilience and Toughness**
   (c) **Malleability and Ductility**
   (d) **Plasticity and Elasticity**
   (e) **Fatigue and Creep.**
2) **Differentiate between:**
   (a) **Brittle fracture and Ductile fracture**
   (b) **Fatigue fracture and Creep fracture**
3) **Classify plain carbon steel on the basis of percentage of carbon with their properties and uses.**
4) **What is cast iron. Write a short note on various types of cast iron.**
5) **Why stainless steel is corrosion resistant. Differentiate between martensitic stainless steel and austenitic stainless steel.**
6) **Differentiate between normalizing and annealing.**
7) **Differentiate between carburising and cynading.**
8) **Give composition and uses of following alloys**
   (a) **Muntz metal**
   (b) **Babit metal**
   (c) **Bell metal**
   (d) **Duralumin**
   (e) **Gun metal**
   (f) **Super high speed steel**
   (g) **Nichrome.**
9) **Draw stress-strain diagram for ductile and brittle material**
10) **Differentiate between brass and bronze.**