Assignment 3

- 1. List a few important biometallic materials. Also provide their applicability as various implants in body.
- 2. Show the differences in terms of density, modulus, and corrosion resistance between the major types of metallic biomaterials.
- 3. What is the major problem in metallic implants?
- 4. List the typical special properties of Ta alloy.
- 5. How is the grain size measured in metallic biomaterials?
- 6. What is the role of grain refinement in affecting mechanical properties? List the processes that can be utilized for grain refinement?
- 7. Show a comparison between the longitudinal and transverse microstructure of cold-worked (rolled) steel.
- 8. Which type of steels possess superior corrosion resistance?