
Answer any FIVE Questions All Questions carry equal marks

1. What is the need for biomaterial? Explain four major types of biomaterials in terms of interfacial response of tissues.
2. Discuss in detail the favorable mechanical properties of Titanium and its alloys.
3. Give the classification of elastomers. Give the list of polymers under this category and their applications.
4. What is a dialyser? Explain the desirable features of an ideal dialyser membrane.
5. Explain the reaction, which occurs at the metal-tissue interface of metallic implant. Compare the behaviors of different metals at the metal tissue interaction site.
6. Compare in vivo and in vitro testing of biomaterials.
7. Describe the design considerations of endosseous devices.
8. What are the problems encountered with fixation devices? What are the methods by which we minimize the problems encountered with the fixation devices?
