

#### Assignment 4

1. Which is most widely used bioactive ceramic biomaterial? How is it synthesized?
2. What is the importance of Ca/P ratio of 1.66 in hydroxyapatite?
3. What is tissue response to bio-inert ceramic material?
4. What are concerns in the application of ceramic materials?
5. How a porous ceramic can be fabricated?
6. Which is the most applied coating technology for spraying hydroxyapatite? Show its salient features.
7. What is solid state sintering, and how densification is achieved in this process?
8. How are glass-ceramic composites processed?
9. Which factors dictate engineering the controlled dissolution of implant?
10. What is advantage of bio-glass over conventional ceramics?