Q1. (6p)

Describe what happens when bioactive glass is exposed to body fluids. Write and/or illustrate the way of a bioactive glass implant from intact glass to organized bone.

Q 2. (6p)

2.1. Describe what properties show an osteoconductive material. (3p)

2.2. Describe the different theoretical ways for a material to show osteoinductivity. (3p)

Q3. (6p)

Write about differences between methods for surface manipulation of titanium by Vivoxid's MetAlive™ (2p) and Professor Kokubo's technologies (2p). What goals/intentions the two methods have in their clinical applications (2p)?

Q4. (6p)

Write about differences between bioactive glass (2p) and bioactive glass-ceramic (2p). Discuss about benefits/problems with both of them. (2p)

Q5. (6p)

Write about the difference between coating of an implant by
a) Flame spraying (2p)
b) Electrophoretic Deposition (EPD) (2p).

Discuss about the benefits/problems in both cases. (2p)