Mentor

Unit 8 - HA-based Composites

Course outline

Biomaterials and

Biocompatibility

Proteins and Cells

Manufacturing of

functionality

development

properties

HA-Ag Cell viability

Glass ceramics for

Text Transcripts

processes

trials

Week 7 Assignment How to access the portal Due on 2019-09-18, 23:59 IST. The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Week 1 Introduction to 1) Elements generally incorporated in the biomaterial for their antibacterial properties are silver Defining tissue engineering calcium scaffolds and implants strontium magnesium Structure and Properties of No, the answer is incorrect. Score: 0 Accepted Answers: Stem cells and Cell fate silver Doping of Ag in HA-Ag composites can be evaluated qualitatively by Cell-material Interaction (in vitro and in vivo) and Clinical Thermo-gravimetric analysis Vibrating sample magnetometer Infra-Red spectroscopy None of the above Biomaterials (metals, ceramics and polymers) No, the answer is incorrect. Score: 0 **HA-based Composites** Accepted Answers: Infra-Red spectroscopy HA-Ti Toughness, Cell The inhibitory effect of HA-Ag composites on bacteria is due to HA-CaTiO3 composite Ca²⁺ ions (PO₄)₃ ions HA-BaTiO3 Functional Ag⁺ ions none of the above No, the answer is incorrect. Antibacterial properties Accepted Answers: HA-ZnO Cell fate and Ag⁺ ions antimicrobial properties The advantage of ZnO in HA-ZnO in antimicrobial composites is Quiz : Week 7 Assignment ZnO is a semiconductor ZnO produces H₂O₂ in solution orthopedic and dental applications, acetabular increases the strength of the composite socket and femoral head, None of the above prototype development No, the answer is incorrect. Score: 0 Accepted Answers: ZnO produces H₂O₂ in solution Bactericidal agents are the ones which kill the bacteria inhibit the bacterial growth mutate the bacteria none of the above No, the answer is incorrect. Score: 0 Accepted Answers: kill the bacteria Bacterial colony on a biomaterial can potentially be formed from a single bacterium 10 bacteria 100 bacteria 1000 bacteria No, the answer is incorrect.

