

Biomedical Engineering Exam 1

What is biomedical engineering? - ANS The application of principles of engineering, math & physical science to problems in biology and medicine

Problems in BME? (2) - ANS- modeling of normal or abnormal physiology
- research and design of instrumentation and machines for medical diagnosis or therapy

BME branches (5) - ANS- biomaterials
- biomechanics
- biomedical imaging
- biosensors and instrumentation
- tissue engineering

Biomaterials - ANS Development of devices which are used to enhance life processes (ex: biological/artificial heart)

Biomechanics - ANS The use of engineering or physics principles to understand the performance of an organism

Biomedical imaging - ANS The development and improvement of imaging devices (ex: x-rays, MRIs, CAT scans, ultrasound)

Biosensors and instrumentation - ANS The development of sensors and data collection systems to monitor and provide feedback on human body processes (ex: contact lenses monitoring blood glucose levels for diabetes)

Tissue engineering - ANS development of mechanisms to regrow tissues, mostly through provision of environments in which tissues may grow (ex: through use of stem cells, 3D printing)

What was the first prosthetic to be used, where/when was it found and when is it from? - ANS Around 1,000 B.C. in Thebes Egypt - in 2002 German archaeologists uncovered 3000 yr old mummy with a wooden prosthetic tied to foot to serve as big toe

(thought more for aesthetic reasons rather than functional, but found wear marks on bottom showing use)

What was the first documented biomedical instrument, who developed it, when and why? - ANS The stethoscope developed by Rene Laennec in 1816 because he didn't want to place his ear onto a young woman's bare chest so he used a rolled up newspaper -> inspired his invention

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