Homework 3: Modern materials

# 1. Which one of the following statements is false? [1]

⬨ Nanomaterials are between 1 and 1000 nanometres in size

⬨ Graphene is a carbon lattice structure one atom thick

⬨ Biodegradable polymers are made from petrochemical resources

⬨ Information is transmitted down fibre optic cables using pulses of light

# 2. Name three different modern materials and describe one use for each. [6]

# 3. Explain why LCD screens are appropriate for use in a battery powered metronome? [3]



# 4. Explain why biodegradable polymers are considered to be CO2 neutral. [3]

# 5. How might metal foams be beneficial to patients receiving orthopaedic implants? [2]

Total 15 marks