

# SELF-HEALING MATERIALS - EXAMINATION QUESTIONS

USEFUL LINK:

[http://www.technologystudent.com/despro\\_3/selfheal1.html](http://www.technologystudent.com/despro_3/selfheal1.html)

1. In simple terms, what is a Self-Healing material? **2 marks**

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2. Describe two advantages that self-healing materials have, over more common materials. **2 marks**

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3. Some polymers and elastomers are self-healing. When a 'crack appears in the surface of these materials, how is it repaired? Use notes and a sketch(s) in your answer **6 marks**

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4. How do the tracks of self-healing electronic circuits repair, if a crack occurs preventing the flow of electricity? **3 marks**

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5. What is self-healing concrete and how does it work? Include notes and a sketch(s) in your answer. **6 marks**

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