ENGLAND GCSE DESIGN AND TECHNOLOGY AQA · UNIT 2 · 5 QUESTIONS

Systems and Mechanical Devices — Practice Test

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1 **A mobile phone has a small motor that makes it vibrate. What does a microcontroller do in this system?**

- A It stores energy as chemical energy for later use
- B It makes a loud sound to warn the user
- C It gives out light when the system is switched on, in some situations
- D It takes sensor inputs, follows its program and switches outputs

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2 What does a parallel motion linkage do?

- A It changes movement through 90 degrees
- B It keeps parts parallel as they move
- C It turns rotary movement into a straight line
- D It makes the output move the opposite way to the input

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3 What is the process in a system?

- A What is fed into the system at the start
- B What comes out of the system at the end
- C What the system does with the input
- D What is thrown away by the system

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4 **What is meant by the strength of a material?**

A How well it resists being scratched or dented

B How well it returns to shape after being stretched

C How well it resists a force without breaking

D How well it soaks up a sudden knock without breaking

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5 **A load of 90 N is lifted with an effort of 30 N. What is the mechanical advantage?**

A 4

B 2

C 30

D 3

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ANSWER KEY

1. D
2. B
3. C
4. C
5. D

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