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

Mechanical Devices and Electronic Systems — Practice Test

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1 **A hand saw rests beside a wheelbarrow. Which class of lever is a wheelbarrow?**

- A Second class
- B First class
- C Third class
- D A lever with no fulcrum

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2 How is pulley ratio worked out?

- A Diameter of the driven pulley divided by diameter of the driver pulley
- B Diameters of both pulleys added together
- C Diameters of both pulleys multiplied together
- D Diameter of the driver pulley divided by diameter of the driven pulley

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3 What does a driver gear do?

- A It is the gear that supplies the movement to the other gear
- B It is the gear that stops the movement
- C It is the gear that changes the direction by 90 degrees, in some situations
- D It is the gear that is driven by the other gear

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4 **What does a PIR sensor detect?**

- A Temperature of a liquid
- B Light level in a room
- C Moisture in soil
- D Movement of a warm body

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5 **In a second class lever, where is the load?**

- A Between the fulcrum and the effort
- B At the same end as the effort
- C Between the effort and the fulcrum only in a first class lever
- D Outside the lever completely

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ANSWER KEY

1. A
2. A
3. A
4. D
5. A

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