ENGLAND GCSE DESIGN AND TECHNOLOGY EDEXCEL · UNIT 2 · 10 QUESTIONS

Mechanical Devices and Electronic Systems — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button so it can be fixed.

1 **A toaster has a diode in its circuit. What does a diode do?**

- **A** It limits the flow of current
- **B** It gives out light in all circuits
- **C** It allows current to flow in one direction only
- **D** It stores electric charge for later use, in some situations

Understand It with Pulse | Flag a mistake

2 **An electric kettle has a thermistor that stops it boiling dry. What does a thermistor detect?**

- A Light level
- B Temperature
- C Movement
- D Sound level

Understand It with Pulse | Flag a mistake

3 **A driver pulley is 10 mm across and the driven pulley is 50 mm across. The driver turns at 100 rpm. How fast does the driven pulley turn?**

- A 100 rpm
- B 200 rpm
- C 50 rpm
- D 20 rpm

Understand It with Pulse | Flag a mistake

4 **Which movement does a drawer sliding open use?**

- A Linear
- B Oscillating
- C Rotary
- D Reciprocating

Understand It with Pulse | Flag a mistake

5 **Which of these is a second class lever?**

- A A fishing rod
- B A pair of scissors
- C A wheelbarrow
- D A pair of tweezers

Understand It with Pulse | Flag a mistake

6 **What does a snail cam do?**

A It keeps the follower still at all times

B It moves the follower in a circle

C It lifts the follower quickly and drops it slowly, in some situations

D It lifts the follower slowly and then drops it quickly

Understand It with Pulse | Flag a mistake

7 **Which sensor would a designer choose for an automatic night light?**

A A PIR sensor

B A thermistor

C A moisture sensor

D An LDR

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8 **What does a parallel motion linkage do?**

A It reverses the direction of the movement

B It changes rotary movement into linear movement

C It changes linear movement into rotary movement, in some situations

D It keeps a part moving in the same direction as the input

Understand It with Pulse | Flag a mistake

9 **Which of these is an output device?**

A A push switch

B A motor

C A PIR sensor

D A moisture sensor

Understand It with Pulse | Flag a mistake

10 **Why must a designer know the type of movement a mechanism needs?**

A To choose the colour of the mechanism, which can happen in some cases

B To choose a mechanism that gives the right output movement

C To avoid using any moving parts

D To choose the cheapest material only

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. C
2. B
3. D
4. A
5. C
6. D
7. D
8. D
9. B
10. B

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