ENGLAND GCSE COMBINED SCIENCE EDEXCEL FOUNDATION · UNIT 26 · 10 QUESTIONS

Magnetism and the Motor Effect — 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 passenger train brakes. What force slows it down?**

- A gravity, pulling it down
- B lift
- C thrust
- D friction

Understand It with Pulse | Flag a mistake

2 **A yellow school bus stops at a station. What happens to its speed?**

A it increases

B it becomes zero

C it becomes negative

D it stays the same

Understand It with Pulse | Flag a mistake

3 **What is a permanent magnet?**

A a piece of iron with no magnetism

B a magnet that keeps its magnetism

C a magnet that loses its magnetism at once

D a magnet that only works when switched on

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4 **A guitar string vibrates to make a sound. What type of wave is the sound wave?**

A longitudinal

B transverse

C electromagnetic

D standing

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5 **A calculator runs on a small current. What is current measured in?**

A ohms, the unit of resistance

B volts, the unit of voltage

C watts, the unit of power

D amperes

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6 **How else can the strength of an electromagnet be increased?**

- A by cooling the coil in water
- B by using a longer wire with no coil
- C by taking turns off the coil
- D by adding more turns to the coil

Understand It with Pulse | Flag a mistake

7 **What does a compass needle point to?**

- A the nearest large magnet
- B geographic south, away from north
- C the centre of the Earth
- D magnetic north

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8 **What is the motor effect?**

A a force on a current in a field

B a force on a wire with no field

C a force that only works in space

D a force on a magnet with no current

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9 **What does a solenoid with an iron core become?**

A an electromagnet

B a permanent magnet made of steel

C a motor that spins around

D a generator making electricity

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10 **Which poles attract each other?**

A south and south, which are the same

B no poles attract each other at all

C north and south

D north and north, which are the same

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ANSWER KEY

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

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