ENGLAND GCSE PHYSICS OCR GATEWAY HIGHER · UNIT 4 · 10 QUESTIONS

Magnetism and Magnetic Fields — 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 to let Brett know so he can fix it.

1 **A guitar string is tightened. What happens to the pitch?**

- **A** it falls
- **B** it stays the same
- **C** it disappears
- **D** it rises

Understand It with Pulse | Flag a mistake

2 **A basketball is thrown up. What happens to its speed as it rises?**

- A it decreases
- B it increases
- C it stays the same
- D it becomes zero

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3 **What happens to the induced potential if the coil turns faster?**

- A it stays the same
- B it becomes direct
- C it decreases
- D it increases

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4 **Hardcover books are stacked on a table. What force pulls them down?**

- A air resistance
- B friction
- C tension
- D gravity

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5 **What does Fleming's left-hand rule give?**

- A the force direction
- B the strength of a magnet
- C the direction of a field line
- D the size of the current

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6 **A transformer has a primary voltage of 240 V. The number of turns on the secondary coil is 10 times smaller than on the primary coil. What is the secondary voltage?**

- A 48 V
- B 250 V
- C 2400 V
- D 24 V

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7 **An iron core is put inside a solenoid. What happens to the field?**

- A it stays the same
- B it gets weaker
- C it gets stronger
- D it disappears

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8

How does a microphone work?

A sound makes a magnet stronger and bigger

B sound moves a coil in a field

C sound heats a coil

D sound charges a battery

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9

What is a permanent magnet?

A a magnet that can be switched off

B a magnet that is very strong

C a magnet that stays magnetic

D a magnet made of iron only

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10 **A transformer has 200 turns on the primary coil and 10 turns on the secondary coil. What is the turns ratio?**

- A 20
- B 21
- C 40
- D 19

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ANSWER KEY

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

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