ENGLAND GCSE PHYSICS AQA HIGHER · UNIT 7 · 10 QUESTIONS

Magnetism and Electromagnetism — 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 calculator uses a battery. What energy is stored in the battery?**

- A thermal energy from heat
- B chemical energy
- C kinetic energy of motion
- D light energy from the Sun

Understand It with Pulse | Flag a mistake

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

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

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3 **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 24 V
- B 250 V
- C 48 V
- D 2400 V

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4 **A generator coil turns 2 times per second. How many turns is that in one minute?**

- A 180
- B 120
- C 240
- D 60

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5 **What happens when two north poles are brought together?**

- A they neutralise
- B they repel
- C they attract
- D nothing happens

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6 **What happens if a magnet is pulled out of a coil instead of pushed in?**

A the induced potential reverses

B the potential doubles

C the potential disappears for ever

D the coil melts

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7 **Why is electricity transmitted at high voltage?**

A to increase the current

B to reduce energy loss

C to make it safer

D to make it cheaper to make

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8 **A passenger train carries people around the country. Which part of the blood is like the train, carrying oxygen around the body?**

A plasma

B white blood cells

C red blood cells

D platelets

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9 **A transformer has a primary voltage of 230 V. The secondary coil has 2 times fewer turns than the primary coil. What is the secondary voltage?**

A 240 V

B 115 V

C 230 V

D 460 V

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10 **The force on a wire in a magnetic field is 2 N. If the current doubles, what is the new force?**

A 2 N

B 6 N

C 4 N

D 1 N

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ANSWER KEY

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

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