ENGLAND GCSE COMBINED SCIENCE EDEXCEL FOUNDATION · UNIT 27 · 10 QUESTIONS

Electromagnetic Induction — 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 **Hardcover books are stacked on a table. What force pulls them down?**

A tension

B gravity

C air resistance

D friction

Understand It with Pulse | Flag a mistake

2 **A passenger aeroplane flies at a steady speed and height. What is the resultant force on the aeroplane?**

- A 5000 N
- B 1000 N
- C 0 N
- D 10000 N

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3 **A transformer has a primary voltage of 230 V. The secondary coil has 5 times fewer turns than the primary coil. What is the secondary voltage?**

- A 46 V
- B 240 V
- C 1150 V
- D 92 V

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

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

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5 **A transformer has a primary voltage of 240 V. The number of turns on the secondary coil is 2 times smaller than on the primary coil. What is the secondary voltage?**

- A 120 V
- B 240 V
- C 480 V
- D 250 V

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6 **What is induced potential?**

A a potential from a battery

B a potential from static charge

C a potential that never changes

D a changing field makes one

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7 **Why are power cables hung high above the ground?**

A the voltage is dangerous

B to keep them cool

C to stop birds landing on them

D to make them look tidy

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8

How does a loudspeaker work?

A the cone vibrates the magnet

B current moves a coil in a field

C a battery makes the cone hot

D a magnet makes sound on its own, with no coil

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9

What does a generator do?

A turns movement into electricity

B makes a magnet

C turns electricity into movement

D stores electricity

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10 **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 red blood cells

C white blood cells

D platelets

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ANSWER KEY

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

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