ENGLAND GCSE COMBINED SCIENCE EDEXCEL HIGHER · 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 **A wristwatch is used to time a race. What is speed calculated from?**

- A distance and time
- B distance only, not time
- C time only, not distance
- D mass and time together

Understand It with Pulse | Flag a mistake

2 **A passenger train travels at a steady speed. What is its acceleration?**

- A 10 m/s²
- B 9.8 m/s²
- C 0 m/s²
- D 1 m/s²

Understand It with Pulse | Flag a mistake

3 **A passenger aeroplane takes off. Which force lifts it up?**

- A lift
- B thrust
- C drag
- D weight

Understand It with Pulse | Flag a mistake

4 **A yellow school bus carries children to school. Which blood vessel carries blood away from the heart, like a bus leaving the station?**

- A a ventricle
- B an artery
- C a vein
- D a capillary

Understand It with Pulse | Flag a mistake

5 **A calculator is switched on. What does the battery transfer energy to?**

- A the circuits
- B the buttons only
- C the screen only
- D the case

Understand It with Pulse | Flag a mistake

6 **How can the output of a generator be increased?**

- A turn the coil faster
- B use fewer turns on the coil
- C use a weaker magnet
- D turn the coil slower

Understand It with Pulse | Flag a mistake

7 **What is induced potential?**

A a changing field makes one

B a potential that never changes

C a potential from a battery

D a potential from static charge

Understand It with Pulse | Flag a mistake

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

A 1200 V

B 96 V

C 48 V

D 250 V

Understand It with Pulse | Flag a mistake

9 **A transformer has a primary voltage of 230 V. The secondary coil has 10 times fewer turns than the primary coil. What is the secondary voltage?**

- A 46 V
- B 23 V
- C 2300 V
- D 240 V

Understand It with Pulse | Flag a mistake

10 **A guitar is plugged into an amplifier. What flows through the cable?**

- A sound waves travelling along it
- B light
- C water
- D electric current

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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