ENGLAND GCSE PHYSICS EDEXCEL FOUNDATION · UNIT 13 · 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 to let Brett know so he can fix it.

1 **A wristwatch ticks every second. How many ticks in a minute?**

- A 30
- B 60
- C 100
- D 12

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

3 **A generator coil turns 10 times per second. How many turns is that in one minute?**

- A 660
- B 540
- C 600
- D 1200

Understand It with Pulse | Flag a mistake

4 **A transformer has 200 turns on the primary coil and 50 turns on the secondary coil. What is the turns ratio?**

- A 5
- B 8
- C 3
- D 4

Understand It with Pulse | Flag a mistake

5 **Why is a high current bad for power cables?**

A it wastes energy as heat

B it stops the current flowing

C it makes the voltage rise

D it makes the cables lighter

Understand It with Pulse | Flag a mistake

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

A water

B sound waves travelling along it

C light

D electric current

Understand It with Pulse | Flag a mistake

7 **A transformer has a primary voltage of 230 V. The number of turns on the secondary coil is 10 times smaller than on the primary coil. What is the secondary voltage?**

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

Understand It with Pulse | Flag a mistake

8 **A yellow school bus is full of children. What is its mass like?**

- A larger than when empty
- B smaller than when empty
- C the same as when empty
- D zero

Understand It with Pulse | Flag a mistake

9 **Hardcover books have mass. What is mass measured in?**

A joules

B kilograms

C newtons, the unit of force

D watts

Understand It with Pulse | Flag a mistake

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

A use fewer turns on the coil

B use a weaker magnet

C turn the coil slower

D turn the coil faster

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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