ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY HIGHER · UNIT 16 · 10 QUESTIONS

Explaining Motion — 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 red race car speeds up on a straight track. What is the resultant force doing?**

- A causing a turn
- B doing nothing
- C causing acceleration
- D causing deceleration

Understand It with Pulse | Flag a mistake

2 **A Ferris wheel is at the top. What is the person's height like?**

- A at zero
- B at its greatest
- C at its smallest
- D unchanged

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

- A white blood cells
- B red blood cells
- C plasma
- D platelets

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4 **What happens to momentum in a crash?**

- A it doubles in size
- B it turns into heat only
- C it disappears completely
- D it is conserved

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5 **A force of 100 N acts on an area of 5 square metres. What is the pressure?**

- A 500 Pa
- B 40 Pa
- C 10 Pa
- D 20 Pa

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6 **An object speeds up from 0 m/s to 30 m/s in 5 seconds. What is its acceleration?**

- A 6 m/s²
- B 12 m/s²
- C 3 m/s²
- D 30 m/s²

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7 **An object travels 100 m in 20 seconds. What is its speed?**

- A 2.5 m/s
- B 2000 m/s
- C 5 m/s
- D 10 m/s

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8 **What force is needed to accelerate a 2 kg object at 5 m/s squared?**

- A 5 N
- B 10 N
- C 20 N
- D 15 N

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9

A see-saw balances when the moments on each side are what?

A zero on both sides

B bigger on the heavy side

C doubled on the left side

D equal

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10

What is the thinking distance?

A the distance covered while reacting

B the distance between two cars

C the distance travelled while braking

D the total stopping distance

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ANSWER KEY

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

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