

FREE SAMPLE: THE FIRST 3 QUESTIONS

PAPER 1

40 marks · Questions 1 – 40 · multiple choice (A – D) · 1 h

Answer ALL questions. For each question from 1 to 40, four options are given. One of them is the correct answer. Make your choice (A, B, C or D). Each question carries 1 mark. Questions 1 – 20 are on Physics and questions 21 – 40 are on Biology.

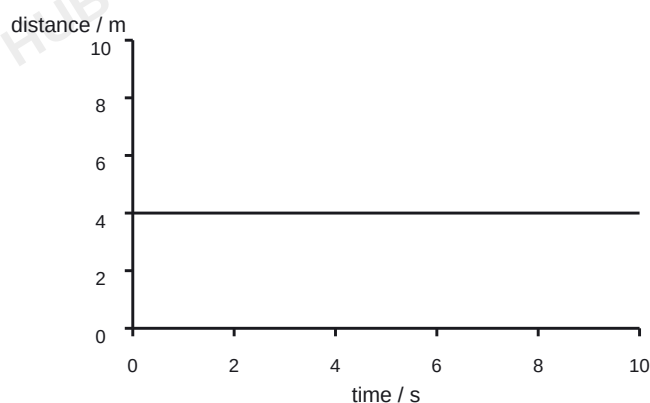
1. Which of the following is a vector quantity? [1 mark]

- A Speed
- B Force
- C Mass
- D Time

2. A heavy stone and a light stone are dropped from the same height in a vacuum. Which statement is correct? [1 mark]

- A The light stone has the larger acceleration
- B The heavy stone has the larger acceleration
- C They reach the ground at the same time
- D The heavy stone reaches the ground first

3. The graph shows how the distance travelled by an object changes with time. Which statement describes the motion? [1 mark]



- A Slowing down
- B Moving backwards at constant speed
- C Moving at a constant speed
- D At rest

THE WORKED ANSWERS TO THOSE 3 QUESTIONS

1. Which of the following is a vector quantity? [1 mark] [Physical quantities, units and measurement]

Correct answer: B — Force

- Force has both size and direction.
- Why the other options are wrong:
- A (Speed): Not correct: Force has both size and direction.
- C (Mass): Not correct: Force has both size and direction.
- D (Time): Not correct: Force has both size and direction.

LOS: Measurement · Physical quantities, units and measurement

KEY TAKEAWAY

Force has both size and direction.

2. A heavy stone and a light stone are dropped from the same height in a vacuum. Which statement is correct? [1 mark] [Kinematics]

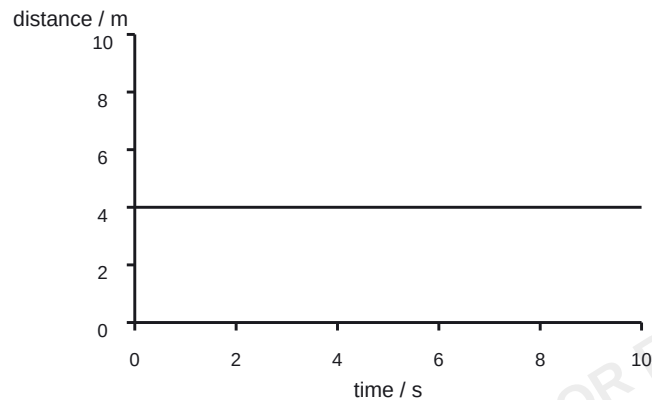
Correct answer: C — They reach the ground at the same time

- In free fall both have acceleration g , whatever their masses.
- Why the other options are wrong:
- A (The light stone has the larger acceleration): Not correct: In free fall both have acceleration g , whatever their masses.
- B (The heavy stone has the larger acceleration): Not correct: In free fall both have acceleration g , whatever their masses.
- D (The heavy stone reaches the ground first): Not correct: In free fall both have acceleration g , whatever their masses.

KEY TAKEAWAY

In free fall both have acceleration g , whatever their masses.

3. The graph shows how the distance travelled by an object changes with time. Which statement describes the motion? [1 mark] [Kinematics]



Correct answer: D — At rest

- The distance does not change, so the object is at rest.
- Why the other options are wrong:
 - A (Slowing down): Look at the gradient: the distance does not change, so the object is at rest.
 - B (Moving backwards at constant speed): This would give a different graph shape.
 - C (Moving at a constant speed): Look at the gradient: the distance does not change, so the object is at rest.

KEY TAKEAWAY

Gradient of distance–time = speed; gradient of speed–time = acceleration.

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