



Mathematics (Base and Advanced) (Practicals: None)

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SECTION A (20 marks)

Answer all the questions in the spaces provided in the specified places.

1.1 Which of the following is not an example of a vector unit?

- A. Displacement
- B. Mass
- C. Temperature
- D. Speed

1.2 The following diagram showing a ruler held used to measure the length of an object.



What is the measurement and the actual length of the object?

	Measured value	Actual length
A	10.0 cm	10.0 cm
B	10.0 cm	9.0 cm
C	10.0 cm	11.0 cm
D	9.0 cm	10.0 cm

1.3 A person throws a stone from a height of 1.5 m above the ground. With what velocity does it strike the ground?

- A. 10.0 m/s
- B. 5.0 m/s
- C. 15.0 m/s
- D. 20.0 m/s

1.4 The following graph shows the speed of a car varies with time.



What was happening to the motion of the car between 10 s and 20 s? The acceleration of the car was

- A. constant
- B. decreasing
- C. increasing
- D. zero

END OF TEST

10 10 10 10

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**Petronella Dal Bianco**



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