

D.  $1.6\%$

1.5 There are ... atoms of hydrogen in  $20\text{ g}$  of  $\text{H}_2\text{O}$ .

- A.  $2.4 \times 10^{24}$   
 B.  $6 \times 10^{23}$   
 C.  $4.8 \times 10^{24}$   
 D.  $8 \times 10^{23}$

[2]

#### QUESTION 2

An airplane flies in the following manner:  $200\text{ km}$  east,  $100\text{ km}$  south and then  $100\text{ km}$  west.

- 2.1 ~~Calculate the total distance travelled by the airplane.~~ (2)  
 2.2 ~~Calculate the total displacement of the airplane.~~ (2)  
 2.3 ~~Calculate the average speed of the airplane if it takes  $1.5\text{ h}$  to complete the journey.~~ (2)  
 2.4 If the plane takes  $10\text{ min}$  to complete the journey, determine the average speed  $\vec{v}$  for  $\vec{v}_x$ . (2)

[7]

#### QUESTION 3

A car drops oil. The driver pulls out of his driveway and leaves a trail of oil drops on the road as he travels. The oil drops are dropped every half a second. The distance of the drops (relative to the start) is given:

Drop point	Distance from starting point
1	0
2	1
3	4
4	9
5	16
6	25

- 3.1 ~~Calculate the acceleration of the car.~~ (2)  
 3.2 ~~Calculate the average velocity of the car between drops 1 and 6.~~ (2)  
 3.3 Calculate the magnitude of the velocity at point E. (2)  
 3.4 ~~Calculate the total distance of the car when it reaches point F.~~ (2)

[7]

[7]

#### QUESTION 4

The velocity vs time graph below illustrates a part of a motor journey, stopping for fuel at a petrol station.



NO EQUATIONS OF MOTION SHOULD BE USED IN ANSWERING THE FOLLOWING QUESTIONS.

- 4.1 ~~Calculate the maximum velocity of the vehicle.~~ (2)  
 4.2 ~~Calculate the total distance travelled by the vehicle.~~ (2)  
 4.3 Use the graph to calculate the acceleration at the following intervals:  
 4.3.1 ~~Between points A and B.~~ (2)  
 4.3.2 ~~Between points C and D.~~ (2)  
 4.4 Use the graph to calculate the total displacement of the vehicle. (2)

[7]

#### QUESTION 5

A vehicle starts from rest and accelerates in a southerly direction at  $2\text{ m/s}^2$ .

- 5.1 ~~Calculate the distance travelled by the vehicle after  $10\text{ s}$ .~~ (2)  
 5.2 ~~Calculate the velocity of the vehicle after  $10\text{ s}$ .~~ (2)  
 5.3 ~~Calculate the time taken for the vehicle to travel  $100\text{ m}$ .~~ (2)  
 5.4 ~~Calculate the average velocity of the vehicle after  $10\text{ s}$ .~~ (2)

[7]

# Physical Science Control Test Of September

**Camilla Rothe**



**Physical Science Control Test Of September:**

## Decoding **Physical Science Control Test Of September**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Physical Science Control Test Of September**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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