

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 has  $500\text{ kg}$  to complete the journey, determine the average speed  $1\text{ km/h}$ . (2)

[7]

#### QUESTION 3

A car stops at the driver pulls out of his driveway and leaves a set of oil drops on the road as he travels. The oil drops are dropped every half a second. The distance of the drops (in the direction of travel) follows:

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]

[10]

#### QUESTION 4

The velocity vs time graph below illustrates a part of a motor's 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 motor.~~ (2)  
 4.2 ~~Calculate the total distance travelled by the motor.~~ (2)  
 4.3 Use the graph to calculate the acceleration at the following intervals:  
 4.3.1 ~~Between 0 and 2 s.~~ (2)  
 4.3.2 ~~Between 4 and 6 s.~~ (2)  
 4.3 Use the graph to calculate the total displacement of the vehicle. (2)

[7]

#### QUESTION 5

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

- 5.1 ~~Calculate the velocity of the vehicle after  $10\text{ s}$ .~~ (2)  
 5.2 ~~Calculate the velocity of the vehicle after  $10\text{ s}$ .~~ (2)  
 5.3 ~~Calculate the distance travelled by the vehicle.~~ (2)  
 5.4 ~~Calculate the average velocity of the vehicle.~~ (2)

[7]

# Physical Science Grade September Control Test

**COSPAR. Plenary Meeting**



**Physical Science Grade September Control Test:**

## **Physical Science Grade September Control Test** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Physical Science Grade September Control Test**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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