

D. 1.6%

1.5 There are ... atoms of hydrogen in 20 g of H_2O .

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

[2]

QUESTION 2

An airplane flies in the following manner: 200 km east, 100 km south and then 100 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 hour to complete the journey.~~

[2]

2.4 The plane has 500 km to complete the journey, determine the average speed if time is 1 hour .

[2]

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]

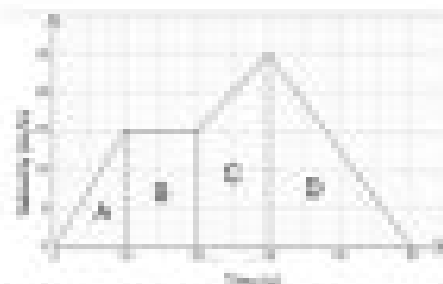
3.4 ~~Calculate the acceleration of the car between drops 1 and 6.~~

[2]

[2]

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 ~~Interval A~~

[2]

4.3.2 ~~Interval C~~

[2]

4.4 Use the graph to calculate the total displacement of the vehicle.

[2]

[2]

QUESTION 5

A vehicle starts from rest and accelerates in a southerly direction at 2 m/s^2 .

5.1 ~~Calculate the distance travelled.~~

[2]

5.2 ~~Calculate the velocity of the vehicle after 10 s .~~

[2]

5.3 ~~Calculate the time taken for the vehicle to travel 100 m .~~

[2]

5.4 ~~Calculate the average velocity of the vehicle.~~

[2]

[2]

Physical Science Control Test Of September

Mike Jess



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