

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 If the plane takes 1 hour to complete the journey, determine the average speed $\vec{v}$ for $\vec{v}_x$. (2)

[7]

QUESTION 3

A car stops at a traffic light and turns a set of all 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

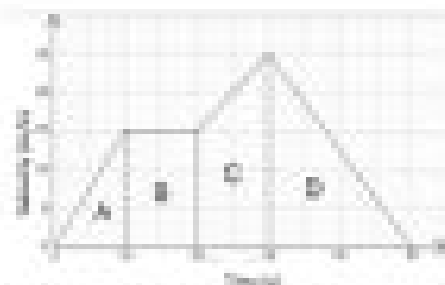
- 3.1 ~~Calculate the acceleration of the car.~~ (2)
 3.2 ~~Calculate the average velocity of the car between drops 1 and 6.~~ (2)
 3.3 Calculate the magnitude of the velocity at point E. (2)
 3.4 ~~Calculate the total distance of the car when it reaches point F.~~ (2)

[7]

[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 3 m/s^2 .

- 5.1 ~~Calculate the distance travelled by the vehicle after 10 s .~~ (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 after 10 s .~~ (2)

[7]

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**Pedro Forte, Daniel Leite
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