

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  $500\text{ kg}$  in 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]

[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]

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**United States. National Aeronautics  
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