

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 this 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                           |

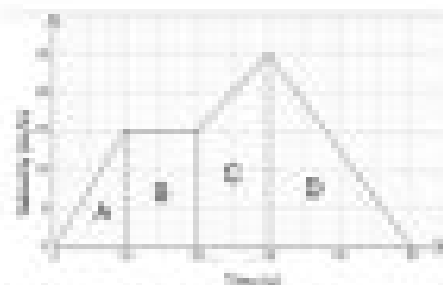
- 3.1 ~~Calculate the acceleration of the car.~~ (2)  
 3.2 ~~Calculate the average velocity of the car between drops 1 and 6.~~ (2)  
 3.3 Calculate the magnitude of the velocity at point E. (2)  
 3.4 ~~Calculate the total distance of the car when it reaches point F.~~ (2)

[7]

[10]

#### QUESTION 4

The velocity vs time graph below illustrates a part of a motor 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 A and B.~~ (2)  
 4.3.2 ~~Between 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  $20\text{ m/s}^2$ .

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

[7]

# Physical Science Control Test Of September

**Dr. U. K. KULKARNI**



## **Physical Science Control Test Of September:**

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**Publications** United States. National Bureau of Standards,1978      **Publications of the National Bureau of Standards 1977 Catalog** United States. National Bureau of Standards,1978      *Publications of the National Bureau of Standards* United States. National Bureau of Standards,1977      Chemical News and Journal of Physical Science ,1870  
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