FORMATIVE ASSESSMENT MOTION

Short Answer Based questions

1)  What is unit of acceleration?
2)  What is zero uniform velocity motion?
3)  A body moving in a circle with constant speed. Is it acceleration?
4)  A body goes from point A to B and then return then from B to A. what is the total displacement?
5)  Acceleration is a vector quantity True or false?
6)  What is the path of a velocity –time graph of a body moving with uniform acceleration
7)  What all ways the velocity of the body can be changed?
8)  What is average speed?

Match the column

<table>
<thead>
<tr>
<th>Column A</th>
<th>Column B</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Slope of the speed-time graph is called</td>
<td>Average Velocity</td>
</tr>
<tr>
<td>The arithmetic mean of initial and final velocity</td>
<td>distance</td>
</tr>
<tr>
<td>What quantity is obtained by the area under speed time graph</td>
<td>acceleration</td>
</tr>
<tr>
<td>The slope of the distance time graph</td>
<td>speed</td>
</tr>
</tbody>
</table>

Table type question

A car moves in a straight line from rest at t=0. It accelerates with 2m/s²

Solve the following table

<table>
<thead>
<tr>
<th>Time</th>
<th>2 sec</th>
<th>?</th>
<th>?</th>
<th>?</th>
<th>10 min</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displacement</td>
<td>?</td>
<td>?</td>
<td>25 m</td>
<td>?</td>
<td></td>
</tr>
<tr>
<td>Velocity</td>
<td>?</td>
<td>10 m/s</td>
<td>?</td>
<td>?</td>
<td></td>
</tr>
</tbody>
</table>
Fill in the blanks

1) A car starts at rest and travels a distance 20 m in 1 sec. The car average speed is ……………..

2) Motion of earth around sun is an example of ………….

Motion

3) Tractor moving with 18 km/h is ………….. then car moving with 1500 m/min

4) The motion of a free falling body is an example of ……………….. motion

5) The curved speed time graph represent ………………accelerated motion

6) Distance is a ………..quantity while displacement is a …………….. quantity

Crossword Puzzle

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Across
2. Physical quantity obtained by dividing displacement with time taken
3. A quantity having both magnitude and direction
4. This remains constant in uniform circular motion
6. It is the slope of speed-time graph
8. This measure the distance travelled by the car

Down
1. This is the other name for negative acceleration
4. The speed is said to be a
5. This is the acceleration of the body with uniform velocity
7. This measure the speed of the car

Solution
Fill in the blanks Solution
1) 20 m/s
2) Uniform circular motion
3) Lesser
4) Uniform acceleration motion
5) Not uniform
6) Scalar, vector

Crossword solution
Across: Velocity, Vector, speed, acceleration, Odometer
Down: Retardation, Scalar, Zero, Speedometer