

Science

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(Chapter – 8) (Motion)

(Class – IX)

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Question 1:

What is the nature of the distance – time graphs for uniform and non-uniform motion of an object?

Answer 1:

- The slope of the distance-time graph for an object in uniform motion is straight line.
- The slope of the distance-time graph for an object in non-uniform motion is not a straight line.

Question 2:

What can you say about the motion of an object whose distance-time graph is a straight line parallel to the time axis?

Answer 2:

When the slope of distance-time graph is a straight line parallel to time axis, the object is stationary.

Question 3:

What can you say about the motion of an object if its speed-time graph is a straight line parallel to the time axis?

Answer 3:

When the graph of a speed time graph is a straight line parallel to the time axis, the object is moving with constant speed.

Question 4:

What is the quantity which is measured by the area occupied below the velocity-time graph?

Answer 4:

The quantity of distance is measured by the area occupied below the velocity time graph.