

Class-IX

Physics Date:-24/04/2020

Chapter-8 (Motion)

- ❖ Watch the video of science chapter-8 (Motion), Part-7 from Optimum Online E-Learning Platform
- ❖ Answer the following questions.
 - 1. Draw distance-time graph for an object moving with constant velocity
 - 2. Draw the velocity-time graph for an object moving with constant velocity
- Answers of the previous day homework
 - 1. A bus starts from Darbhanga at 10:00am and reaches
 Patna at 12:00pm. The distance between Darbhanga and
 Patna is 140 km. Calculate the average speed of the bus.

Answer-

Average speed =
$$\frac{total \ distance \ travelled}{time \ taken}$$

Or,
$$V_a = \frac{S}{t}$$

Given that,
 $S = 140 \text{km}$
 $t = 4 \text{ hours}$
 $V_a = \frac{140 \text{km}}{4 \text{ h}} = 35 \text{km/h}$

^{**}Link of Optimum Online E-Learning Platform:- www.optimumschool.net/online In case of any query call at +91-9818033213

2. If the magnitude of displacement and the distance covered by a moving object are the same then what will be the nature of their path of travel?

Answer-

If the magnitude of displacement and total distance covered are equal, then the path is straight line

