

### THEORY

1. The rate of change of the area of a square is  $20 \text{ cm}^2/\text{s}$ . Find the rate of change of its side length when the side length is  $10 \text{ cm}$ .

2. A particle moves along a straight line with a constant acceleration of  $4 \text{ m/s}^2$ . Find the rate of change of its velocity when its displacement is  $10 \text{ m}$ .

3. A particle moves along a straight line with a constant acceleration of  $4 \text{ m/s}^2$ . Find the rate of change of its displacement when its velocity is  $10 \text{ m/s}$ .

4. A particle moves along a straight line with a constant acceleration of  $4 \text{ m/s}^2$ . Find the rate of change of its displacement when its displacement is  $10 \text{ m}$ .

5. A particle moves along a straight line with a constant acceleration of  $4 \text{ m/s}^2$ . Find the rate of change of its displacement when its velocity is  $10 \text{ m/s}$ .

Q. No.	Answer
1.	$2 \text{ cm/s}$
2.	$2 \text{ m/s}$
3.	$2 \text{ m/s}$
4.	$2 \text{ m/s}$
5.	$2 \text{ m/s}$

### DISCUSS WITH ME

