Question 6 : The scalar product of any two vectors at right angles to each other is always

90

zero

None of these

1

Answer: zero

Question 7 : If you run on a winding path from point A to point B and travel a distance of 240m in 20sec then your average speed is

16m/s

12m/s

20m/s

6m/s

Answer: 12m/s

$$v = \frac{240}{20} = 12\frac{m}{s}$$

Question 8 : The dimension of coefficient of linear expansion is

1/K

degrees

L

Lxdegrees

Answer: 1/K

Question 9 : Newton's second law states that the rate of change of momentum is directly proportional to the

pressure

energy

force

power

Answer: force

Question 10 : In a circular motion which of the following quantities is constant

velocity

mass

acceleration

time

Answer: mass