RAJESH INSTITUTE

 CHITRAGUPTA ASTHAN,THAKURBARI

 TEST FOR CLASS 9th

**PHYSICS**

1.$N Kg^{-1}$ is the unit of

(a)retardation (b)acceleration (c)rate of change of velocity

 (d)all of these

2.Acceleration of body projected upwards with a certain velocity is……

 (a)9.8m/s (b)-9.8m/s (c)Zero (d)Insufficient data

3.The rate of change of displacement with time is

 (a)Speed (b)acceleration (c)retardation (d)velocity

4.Abody is thrown vertically upwards and rise to a height of 10m. The velocity with which the body was thrown upwards is (g=9.8m/s)

 (a)16m/s (b)15m/s (c)14m/s (d)12m/s

5.A car travels $^{1}/\_{3}$rd distance on a straight round with a velocity of 10Km/h, next $^{1}/\_{3}$rd with velocity 20Km/h and the last $^{1}/\_{3}$rd with velocity 60Km/h. What is the average velocity of the car in the whole journey?

 (a)4Km/h (b)6Km/h (c)12Km/h (d)18Km/h

6.Example of vector quantities are:-

 (a)velocity, length and mass (b)speed, length and mass

 (c)time, displacement and mass (d)velocity, displacement and

 Force

7.In case of moving body :-

 (a)Displacement $>$ Distance (b)Displacement $<$ Distance

(c)Displacement $\geq $ Distance (d)Displacement $\leq $ Distance

8.A particle moves with a uniform velocity

(a)The particle must be at rest

(b)The particle moves along the curved path

(c)The particle move along a circle

(d)The particle move a straight line

9.A particle travelling with a constant speed.

This means

 (a)Its position remains constant as time passes.

 (b)It covers equal distance in equal interval of time.

 (c)It acceleration is Zero.

 (d)It doesn’t change it direction of motion.

10.Give the name and symbol of the prefixes and to represent the following values.

 (a)$10^{6}$ (b)$ 10^{1}$ (c)$ 10^{-1}$ (d)$ 10^{3}$ (e)$ 10^{-6}$]

11.The wavelength of orange- yellow light is 600nm.Express the wavelength in meter.

(a)5 x $10^{-7}$m (b)6 x $10^{-9}$m (c)6 x $10^{-7}$m (d)none of these.

12.How much larger than a nano second is a milli second.

 (a)$ 10^{4}$ (b)$ 10^{3}$ (c)$ 10^{6}$ (d)$ 10^{-3}$

13.Which of the following has the dimension of pressure?

(a)$ MLT^{-2}$ (b)$ ML^{2}T^{-2}$ (c)$ ML^{-1}T^{-2}$ (d)$ ML^{-1}T^{-1}$

14.A train starting from a railway station and moving with uniform acceleration , attains a speed of 40km/h in 10 minutes. Its acceleration is

 (a)18.5m/$s^{2}$ (b)1.85cm/$s^{2}$ (c)18.5cm/$s^{2}$ (d)1.85m/$s^{2}$

15.A body start falling form height ‘h’ and travels distance $\frac{h}{\sqrt{2}}$ during the last second of motion. The time of travel(in sec) .

 (a)$\sqrt{2}$ -1 (b) 2 +$\sqrt{2}$ (c)$ \sqrt{2}$ +$\sqrt{3}$ (d)$ \sqrt{3}$ +2