PHY101
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1. The path taken by a projectile is called _____

   --->> parabotic

    elliptical

    spherical

    none of the above

2. A dog running at a spped of 32km/hr jumps into a stationary canoe on the river Niger at Lokoja. The dog's mass is 14kg and that of the canoe plus the rower is 160kg. Let us assume that the water surface is frictionless, what is the speed of the canoe after collision?

    72m/s

   --->> 0.72m/s

    7200m/s

    720m/s

3. The motion of a particle is given by x=a+bt2, where a = 20cm, b=4cms2 find the displacement of the particle in the time intervan between t1=2s and t2=5s

    90cm

    80cm

    75cm

   --->> 84cm

4. Which of the following combinations is totally vector quantities?

   --->> force, weight, velocity, work & momentum

    speed, work, length, mass & acceleration

    distance, speed, mass, temperature & volume

    mass, velocity, length, acceleration & speed

2.8m/s

8m/s

--->> 2.5m/s

3m/s

6. The S.I. unit of moment of inertia is

Tesla

N/m2

--->> kg m2

Pa

7. The reluctance of a body to go in to motion when at rest and to stop while in uniform motion in known as

Static

--->> Inertia

Kinetic

Instability

8. The dimension of work done is

M2LT-2

M3L3T-2

--->> ML2T-2

M-1L3T-2

9. Range is maximum when the angle of projection is _____

90 degrees

40 degrees

15 degrees

10. If P=2i + 4j + 3k and Q = i +5j - 2k, find P x Q

23i+7j+6k

--->> 23i+7j+6k

6i-23j+7k

7i-6j+23k