Paper: _____Physics_____

Month Test: _____3rd term_____

Theme/Unit: _____1,2,6_____

Objective:

Name: _____

ID: _____

class: _____9th_____

Total Marks: _____12_____

Obt. Marks: _____

Grand Total: _____75_____

Time: _____

Section: _____

Q. No. 1: Encircle the correct option.

1) The number of base units in SI are
   - a) 3
   - b) 6
   - c) 7
   - d) 9

2) Amount of substance in term of numbers is measured in
   - a) Gram
   - b) Mole
   - c) Kg
   - d) N

3) A measuring cylinder is used to measure
   - a) Area
   - b) Perimeter
   - c) Volume
   - d) Mass

4) Which is not a derived unit?
   - a) Pa
   - b) N
   - c) W
   - d) Kg

5) A body has translatory motion if it moves along a
   - a) Line without rotation
   - b) Circle
   - c) Curved path
   - d) None

6) Vector quantity is
   - a) Speed
   - b) Distance
   - c) Power
   - d) Velocity

7) A change in position is called
   - a) Speed
   - b) Distance
   - c) Displacement
   - d) None

8) A ball is thrown vertically upward, its velocity at highest point is
   - a) Maximum
   - b) Medium

    c) Zero
    d) None
9) Energy stored in coal ia
    a) Chemical
    b) Kinetic
    c) Potential
    d) Nuclear
10)   The work done will be zero when the angle between the force and distance is
    a) 45°
    b) 80°
    c) 90°
    d) 180°
11)   Rate of doing work is called
    a) Energy
    b) Torque
    c) Power
    d) Momentum
12)   The work done in lifting a block of mass 2kg through a height of 5m above
    ground will be
    a) 2.5J
    b) 10J
    c) 50J

Paper: _____Physics_____		Total Marks: _____63_____
Month Test: _____3rd term_____		Obt. Marks: _____
Theme/Unit: _____1, 2, 6_____		Grand Total: _____75_____
Objective / Subjective:	ID: _____	Time: _____
Name: _____	class: _____9th_____	Section: _____

    d) 100J

Q. No.2: Answer the following questions.   30

 i.   Define physics.
 ii.   Define optics.
 iii. What do you know about physical quantities?
 iv.   Write base units.
 v.   What are prefixes?
 vi.   What is least count of Vernier callipers?
 vii. Define nuclear physics
 viii. What is random motion?
 ix.   Define displacement.
 x.   What is uniform speed?
 xi.   What is heat energy?
 xii. What do you know about efficiency of a system?
 xiii. What is mass energy equation?

xiv.   Why do we need energy?

xv.   Define watt.

Q. No.3 a) Writes rules to identify significant figures.   6

b) Your hair grow at the rate of 1mm per day. Find their growth rate in nm/s.   5

Q. No. 4 a) Derive 1st equation of motion.   6

b) A train moves with a uniform velocity of 36km/h for 10s. Find the distance travelled by it.   5

Q. No. 5 a) Define K.E. and Derive its relation.   6

b) Calculate the power of a pump which can lift 200 kg of water through a height of 6m in 10s.   5