Paper: _____ Total Marks: __ _____

Paper: physics **Total Marks: 55**

Month Test: 5th Term **Obt. Marks: _____**

Theme/Unit: _____ **Weekly Test: _____/____**

Objective/Subjective: **ID: _____** **Worksheets: _____/_____**

Name: _____ **class: 9th Section: ___** **Grand Total: _____**

Choose the correct option: /10

1.Water freezes at

a) 0˚F b) 32˚F c) -273˚K d) 0˚K

2.Normal human body temperature

a) 15˚c b) 37˚c c) 37˚F d) 98.6˚c

3.Which of the following material has large specific heat?

a) copper b) ice c) water d) mercury

4. In solids heat is transferred by;

a) radiations b) conduction c) convection d) absorption

5.In gases heat is mainly transferred by;

a) molecular collision b) conduction c) convection d) radiation

6.The number of base units in SI are;

a) 3 b) 6 c) 7 d) 9

7.Which of the following unit is not a derived unit;

a) pascal b) kilogram c) newton d) watt

8.Which one of the following is the smallest quantity;

a) 0.01g b) 2mg c) 100ug d) 5000ng

9.A body has translatory motion if it moves along a;

a) straight line b) circle c) line without rotation d) curved path

10.Which of the following is the vector quantity;

a) speed b) distance c) displacement d) power

Q # 2: Answer these following short questions: /24

I: Define base and derived quantities?

II: What is rest and Motion explain with the help of example?

III: Differentiate between scalars and vectors quantities with the help of defines?

IV: what do you know about significant figure?

V; Explain speed time graph?

VI: A car starts from rest its velocity 20m/s in 8s .find its acceleration?

VII: Differentiate between temperature and heat?

VIII: Specific heat capacity?

IX: Explain the term evaporation?

X: Sketch the change of states?

XI: What do you know about the term conduction?

XII: what is internal energy of body?

Q#3 (a) Explain about the linear thermal expansion in solids?

(5)

(b) How much ice will melt by 50000J of heat? latent heat of fusion of ice =336000Jk/g. (5)

Q#4 (a) Explain thermal conductivity with the help of various factor.

(6)

(b) A train starts from rest with an acceleration of $0.5 m s^{-2}$.find its speed in Km/h when it has moved through 100m. Type equation here.

(5)