Mar Thoma Residential School, Tiruvalla
First Terminal Examination 2017-2018

STD: VI **PHYSICS** **Time: 1½ Hours**

Marks: 80

I. Fill in the blanks (10)

1. One quintal= ___ kg.
2. The _____ of an object is measured using a beam balance.
3. We need standard units of measurement for_____ and _____.
4. The lower fixed temperature in a Celsius thermometer is the melting point of ___.
5. The standard unit of speed is _____.
6. ———— Clocks are accurate to 10 millionth of a second.
7. The instrument used to measure force is _____.
8. The burning of matchstick is possible because of_____.
9. The unit of force is named after the name of great scientist_____.

II. State whether the following statements are 'True' or 'false' and also correct the wrong statements. (10).

1. The SI unit of temperature is °C.
2. Footstep is not a standard unit of measurement.
3. Screw gauge is an instrument used to measure small lengths.
4. The force exerted by electrostatic charges is called frictional force.
5. When two forces of equal magnitude acts in opposite directions, the resultant force acting on it is the sum of the two forces.

III. Define the following with proper units:(10)

a. Temperature b. Time c. Area d. Volume e. Force

IV. Convert :(5)

1. 13:00 hours to clock time
2. 1:55 pm to railway time
3. 1 kilogram to gram
4. 70°C to Kelvin
5. 372 k to °C

V. **Differentiate the following:(10)**

1. regular solids and irregular solids
2. clinical thermometer and laboratory thermometer
3. muscular force and mechanical force
4. contact force and non-contact force
5. maximum and minimum thermometers

VI. **Answer the following questions :**

1. How will you measure the diameter of a spherical object? (3)
2. Write a note on static friction, dynamic friction and rolling friction (3)
3. What are the effects of force? (3)
4. How can we reduce friction? (3)
5. What are the advantages of friction? (3)
6. List the precautions we should take while measuring length. (3)

VII. **Numericals: (12)**

1. The length of a rectangular field is 10 m and breadth is 5m.calculate its area
2. A dozen of 1 rupee coins are piled up. If the height of the pile is 6cm, find th thickness of one coin.
3. If a body is pushed by two forces of 25 N and 15 N in the same direction. Fin resultant force.
4. The length, breadth and height of a box are 30 cm, 20 cm and 10 cm, find its volume.
5. The area of a rectangular field is 250 $m^2$and the length is 25 m, find its bread
6. A train leaves from Delhi at 2:30 hours and reaches Mumbai at 22:50 hours. Calculate the total time taken by the train to complete this distance.

VIII. **Draw a clinical thermometer and label its parts.(5)**