Subject: Physics                                           Topic: Answer-Script

**Answer to Worksheet No. 13 to 15**

**Worksheet No – 13** (Date-29/06/2020)

Q1. Fill in the blanks.

i. Units of area and speed are called **derived** units.

ii. The SI unit of length is **meter**.

iii. The SI unit of mass is **kilogram**.

iv. In CGS system length is measured in **centimetre**.

v. The SI unit of time is **second**.

Q2. Write true or false. Correct the false statement.

i. Density is a derived physical quantity. **true**

ii. The SI unit of temperature is degree centigrade. **False**

   The SI unit of temperature is **kelvin**

iii. Fundamental unit of length in SI system is metre. **true**

iv. The unit of area is derived from the unit of length. **true**

v. The quantities that depend on other physical quantity are known as Fundamental physical quantities. **False**

   The quantities that depend on other physical quantity are known as **derived physical quantity**.

**Worksheet No – 14** (Date-01/06/2020)

Fill in the blanks

1. The SI unit of area is **square meter**.

2. A beam balance measures the **mass** of an object.
3. Mass of a body is a measure of the quantity of matter contained in it.
4. Units of area, volume and density are called derived units.
5. The volume of a liquid can be measured by using a measuring cylinder.
6. The SI unit for measuring mass is Kg.
7. The space occupied by a body is called its matter.
8. SI Units are accepted all over the world.
9. Volume of irregular bodies can be determined by using a measuring cylinder.
10. Volume of liquid is measured in litre.

Match the following.

1. 1 litre (1000 millilitre) scale
2. 1 quintal (100 kg) Beam balance
3. Mass (Beam balance) 1000 millilitre
4. Measuring cylinder (volume) 100 kg
5. Length (scale) volume

Worksheet No – 15 (Date-03/06/2020)

Fill in the blanks.

i. The SI unit of time is second.
ii. A clinical thermometer is used to measure the temperature of human body.
iii. The SI unit of temperature is kelvin.
iv. The normal human body temperature is 37°C or 98.6°F.
v. A stop watch or a stop clock is used for measuring short time intervals.

Write true or false. Correct the false statements.

i. The SI unit of temperature is degree centigrade. **False**

ii. A laboratory thermometer is used to measure human body temperature. **False**
A clinical thermometer is used to measure human body temperature.

iii. In 24-hour clock, 3 am will be shown as 15:00 hours. **False**
In 24-hour clock, 3 am will be shown as **03:00** hours.

iv. The normal human body temperature is 37°F. **false**
The normal human body temperature is 37°C

v. The total number of division between two fixed points in Celsius scale is 90. **False**
The total number of division between two fixed points in Celsius scale is 100.

**Question** - What are the SI units of the following physical quantities?

i. Mass **(kilogram)**

ii. Length **(meter)**

iii. Time **(second)**

iv. Area **(square metre)**

v. Volume **(cubic metre)**

vi. Temperature **(kelvin)**

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