



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Physical Science

Class: 8

Date: 08.03.21

Duration: 40 min

Worksheet Solution 16

Full Marks: 15

HEAT

Choose the Correct options:

1 The capacity to do work is called:

- A. Heat
- B. Energy**
- C. work
- D. none of the above

2 Heat is measured in:

- A. Joule
- B. Calorie
- C. both A and B**
- D. Joule/second

3 1 cal. = ?

- A. 1.2 joule
- B. 3.2 joule
- C. 4.2 joule**
- D. none of the above

4 The form of energy that produces a feeling of hotness is called as:

- A. work
- B. Heat**
- C. Energy
- D. none of the above

5 With the increase in temperature, heat will be:

- A. increase**
- B. constant
- C. decrease
- D. double

6 How we measure the energy value of food?

- A. Joule
- B. Joule/second
- C. Calorie**
- D. none of the above

7 In evaporation

- A. All molecules of liquid begin to escape out
- B. Only the molecules at the surface escape out**
- C. The temperature of liquid rises by absorbing heat from surroundings.
- D. The molecules get attracted within the liquid

8 The rate of evaporation of a liquid increases when

- A. Temperature of liquids falls
- B. Liquid is poured in a vessel of less surface area
- C. Air is blown above the surface of liquid**
- D. Humidity increases

9 During boiling or vaporization

- A. All molecules take part**
- B. Temperature rises
- C. No heat is absorbed
- D. The average kinetic energy of molecules increases.

10 The boiling point of a liquid is increased by

- A. Increasing the volume of liquid
- B. Increasing the pressure, on liquid**
- C. Adding ice to the liquid
- D. Decreasing pressure on liquid

11 Two rods A and B of the same metal, but of length 1m and 2m respectively are heated from 0 degree celsius to 100 degree celsius. Then

- A. Both the rods A and B elongate the same
- B. The rod A elongates more than the rod B
- C. The rod B elongates more than the rod A**
- D. The rod A elongates but the rod B contracts

12 Two rods A and B of the same metal, same length, but one solid and other hollow are heated to the same rise in temperature. Then

- A. The solid rod A expands more than the solid rod B
- B. The hollow rod B expands more than the solid rod A
- C. The hollow rod B contracts but the solid rod A expands
- D. Both the rods A and B expand the same**

13 A given volume of alcohol and the same volume of water are heated from the room temperature to the same temperature then

- A. Alcohol contracts but water expands
- B. Water contracts but the alcohol expands
- C. Water expands more than alcohol
- D. Alcohol expands more than water**

14 The increase in length of a metal rod depends on

- A. The initial length of the rod only
- B. The rise in temperature only
- C. The material of rod only

D. All the above three factors

15 The correct statement is

- A. Iron rims are cooled before they are placed on the cart wheels
- B. A glass stopper gets tighten on warming the neck of the bottle
- C. Telephone wires sag in winter but become tight in summer
- D. A little space is left between two rails on a railway track**