



FOR GOD AND COUNTRY

ST. LAWRENCEHIGH SCHOOL



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- A JESUIT CHRISTIAN MINORITY INSTITUTION
- **Subject : Physics Answers of Worksheet-13 Class: 9**
- **Date 13.06.2020**
Chapter:Heat
- **Answer the following questions (MCQ) : (1×15)**

1. The capacity to do work is called:

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

Ans: B

2 Heat is measured in:

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

Ans: A It is measured in Joule .

3 1 cal. = ?

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

Ans: C

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

Ans: B

5 With the increase in temperature, heat will be:

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

Ans: A Heat increase in temperature

6 How we measure the energy value of food?

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

Ans: C Calorie is used to measure the energy value of food. 1 cal. =4.2 joule

7 The amount of heat required to raise the temperature of a substance by 1°C is called:

- A. work capacity
- B. heat capacity
- C. Energy capacity
- D. none of the above

Ans: B

8 Heat capacity depends on

- A. change in temperature
- B. Mass of body
- C. Nature of substance
- D. All the above

Ans: D It depends on (a) Mass of body (b) change in temperature (c) Nature of substance.

9 Heat bring change

- A. Physical
- B. chemical
- C. reversible
- D. periodic

Ans: B Heat bring chemical change

10 is neither created nor destroyed it can only change one form to another.

- A. work
- B. Heat
- C. Energy
- D. Mass of body

Ans: C Energy is neither created nor destroyed it can only change one form to another.

11 The amount of heat required to raise the temperature of a substance by

- A. 1°C
- B. 1°F
- C. 10°C
- D. 10°F

Ans: A

12 The amount of heat required to raise the temperature of 1 kg by 1°C is called:

- A. heat capacity
- B. work capacity
- C. specific heat capacity
- D. Energy capacity

Ans: C

13 SI unit of specific heat capacity is:

- A. kg°C
- B. j/kg°C
- C. j/kg°
- D. j/g°C

Ans: B

14 Which of the following has the highest heat capacity?

- A. Water
- B. air
- C. soil
- D. none of the above

Ans: A Water has the highest heat capacity.

15 Which of the following are the processes of transfer of heat?

- A. Conduction
- B. Convection
- C. Radiation
- D. All the above

Ans: D Conduction, Convection & Radiation are three processes of transfer of heat.

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