



FOR GOD AND COUNTRY



## ST. LAWRENCE HIGH SCHOOL

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- A JESUIT CHRISTIAN MINORITY INSTITUTION
- **Subject :** Physics      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

**2 Heat is measured in:**

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

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**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 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

**8 Heat capacity depends on**

A. change in temperature

B. Mass of body

C. Nature of substance

D. All the above

**9 Heat bring ..... change**

A. Physical

B. chemical

C. reversible

D. periodic

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

A. work

B. Heat

- C. Energy
- D. Mass of body

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

- A.  $1^{\circ}\text{C}$
- B.  $1^{\circ}\text{F}$
- C.  $10^{\circ}\text{C}$
- D.  $10^{\circ}\text{F}$

**12 The amount of heat required to raise the temperature of 1 kg by  $1^{\circ}\text{C}$  is called:**

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

**13 SI unit of specific heat capacity is:**

- A.  $\text{kg}^{\circ}\text{C}$
- B.  $\text{j}/\text{kg}^{\circ}\text{C}$
- C.  $\text{j}/\text{kg}^{\circ}$
- D.  $\text{j}/\text{g}^{\circ}\text{C}$

**14 Which of the following has the highest heat capacity?**

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

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

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

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