

**1. Define 1 calorie.**

**Ans:-** The amount of heat energy required to change the temperature of one gram of water through  $1^{\circ}\text{C}$  is called one calorie of heat energy.

**2. What do you mean by geo – thermal energy?**

**Ans:-** The energy present inside the earth crust in the form of heat energy is called geo – thermal energy.

**3. Define nuclear reaction.**

**Ans:-** The chemical change which is brought by the involvement of nucleus of an element is called nuclear reaction.

**4. Define heat on the basis of molecular theory.**

**Ans:-** The sum of kinetic energy of all molecules of a body is called heat energy of body.

**5. Define specific heat capacity.**

**Ans:-** The amount of heat energy required or, released by 1 Kg of a substance to change its temperature through  $1^{\circ}\text{C}$  is called specific heat capacity of substance.

**6. Specific heat capacity of a substance “A” is  $390\text{ J/Kg }^{\circ}\text{C}$ . What do you mean by it?**

**Ans:-** Specific heat capacity of a substance “A” is  $390\text{ J/Kg }^{\circ}\text{C}$  it means 390 J of heat energy is required or, released to change the temperature of 1 Kg of “A” through  $1^{\circ}\text{C}$ .

**7. Write down any two demerits of hydroelectricity.**

**Ans:-** Two demerits of hydroelectricity are as follows:-

- i) It can't be stored for future use.
- ii) It can't transmit for long distance.