

CHAPTER 6 : EFFECT OF HEAT ON MATTER
Instructions:

- ✓ Read the chapter in your book - quickly and thoroughly, preferably more than once.
- ✓ Watch the uploaded video classes of this chapter from school's website/You Tube channel. For becoming more clear about the basics, watch more than once, if needed.
- ✓ Contact me in case of any difficulty in understanding.

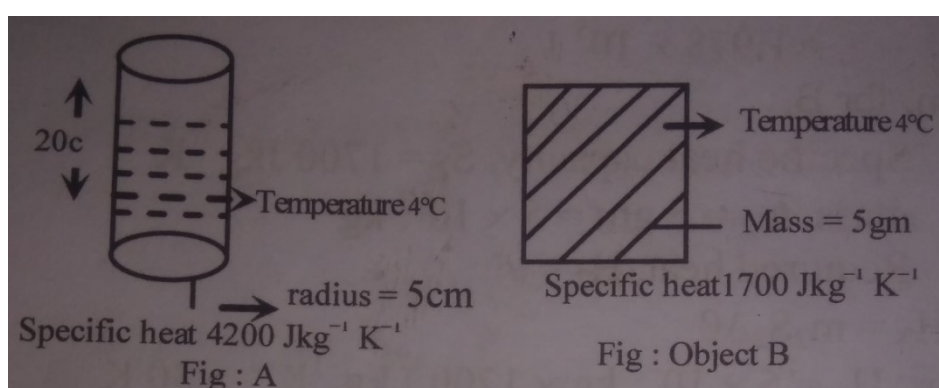
(Questions given in this worksheet are important questions for all exams)

Creative Questions

(Solve Yourself)

1. 420g of copper at 100°C is dropped in 200g of water at 40°C . The temperature of the mixture is 50°C . The relative temperature of copper and water are $400\text{Jkg}^{-1}\text{K}^{-1}$ and $4200\text{Jkg}^{-1}\text{K}^{-1}$ respectively.
 - a) Determine the heat limit of copper.
 - b) Explain using mathematical explanation, how the mentioned action agrees with the basic principles of calorimetry.

2. Observe the following figure carefully and answer the questions.



- a) Find out the value of the temperature of the object B in Fahrenheit scale.
- b) What is the amount of heat needed to increase the temperature of only liquid of the container A and object B through 30°C separately? Which one needs more and how much? Analyze mathematically. (At 4°C , the mass of 1c.c. water is 1gm).