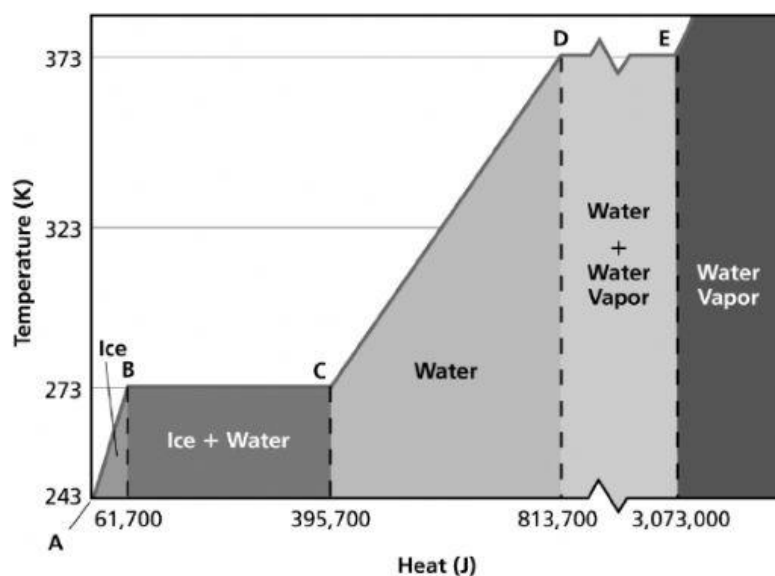Chapter -7

Thermal energy

Section-2 (self guided lesson)

A. In the graph shown above

Heat of vaporization, heat of fusion , 373 K , 273 K

1. AB represent _____

2. DE represent _____

3. Temperature for the graph portion AB = _____ K

4. Temperature for the graph portion DE = _____ K

B. Fill in the blanks with suitable words given below:

MECHANICAL ENERGY , THERMAL ENERGY , FIRST LAW , AUTOMOBILE ENGINE

1. _____ is the restatement of conservation of energy.

2. Heat engine converts _____ energy into _____ energy.

3. When we rub our hands _____ energy is converted to _____ .

4. _____ is an example of heat engine.

C. Suppose that you are camping in the mountains. You need to melt 1.50 kg of snow at 0.0°C and heat it to 70.0°C to make hot cocoa. How much heat will you need?(SEE EXAMPLE 3 , PG 185)