

Class-7. Subject-physics. Topic-Heat

ANSWERS:-

A.1)Heat-It is a form of energy in transit, which excites in us the sensation of warmth.

2) Temperature-The temperature of a body is a measure of the degree of hotness or coldness of that body.

3) Calorie-it is defined as the amount of heat required to raise the temperature of 1 gram of water through 1°C (from 14.5 degree centigrade to 15.5 °C).

4) Good conductors-these are the substances which readily conduct heat.

5) Kilocalorie-It is defined as the amount of heat required to raise the temperature of 1 kilogram of water through 1 °C (from 14.5 degree centigrade to 15.5 degree centigrade) .

A. 1) expand, contract

2) higher, lower.

3) 4.186

4) poor

5) length , thermal conductivity.

C. 1) true

2>true

3) true

4) false

5) true

D.1) Cooking pots are provided with wooden or plastic handles because they are bad conductor of heat, thus they do not conduct heat from the utensil to the hand .Hence we are able to hold the hot utensil.

2) Gaps are left in between rails while laying a railway tracks. This is done to compensate for the expansion with the rise in temperature, otherwise they would bend outwards.

3) The effects of heat are as follows:-

- Change in temperature.
- Change in dimensions.
- Change in state.
- Chemical change.

4) Good conductors are mercury , copper, ,brass and steel .

Bad conductors are mica ,air , wood and glass .
