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Physics
Ch-5
Heat

Snehansh Kar
VII 'C'

Q1) What is heat ? State its S.I unit.

Ans Heat is a form of energy which flows from a hot body to a cold body when they are kept in contact. S.I unit of ~~hed~~ heat is Joule.

Q2) What is meant by the term temperature.

Ans Temperature is a quantity which tells us the degree of hotness or coldness of a body. when the body is heat, the temperature rises and when the body is cooled, the temperature decreases.

Q3) State the three units of ~~em temp~~ temperature.

Ans The three units of temperature are:

i) degree Celcius
ii) degree Fahrenhit
iii) Kelvin

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Q4) Name the instrument used to measure the temperature of a body.

Ans Thermometer is used to measure the temperature of a body.

Q5) Name two scales of temperature. How are they interrelated?

Ans There are three scales of temperature:

i) The Celcius scale
ii) The Fahrenheit scale
iii) The Kelvin scale

Celcius scale and Kelvin scale

Ice point of Celcius scale = 0°C
" " " Kelvin scale = 273K
} 0°C = 273K

Steam point of Celcius scale = 100°C
" " " Kelvin scale = 373K
} 100°C = 373K

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Celcius scale and Fahrenheit scale

Ice point of Celcius scale = 0°C
" " " Fahrenhit scale = 32°F
} 0°C = 32°F

Steam ~~Ice~~ point of Celcius ~~Fahrenheit~~ scale = 100°C
" " " Fahrenheit scale = 212°F
} 100°C = 212°F

Q6) How is the size of a degree on a Celcius scale?

Ans When a body is heated, it expands, and when it is cooled, it contracts. The increase in size of the body due to heating is called thermal expansion

Ans Q7) ~~How is the~~ The interval between the ice point and steam point is divided by 100 equal parts is called degree on the Celcius scales.

Q7) How is size of a degree defined on a Fahrenheit

Ans The interval between the ice point and steam point divided into 180 equal parts is called a degree on the Fahrenheit scale.