



# SHIKSHA CLASSES

Sub. : Science

## Question Paper

Marks : 20

Std. : VIII<sup>th</sup> - S.B.

14. Measurement and Effects of Heat

Time : 45 min.

**Q.1(A) : Choose the correct alternative**

2

1) 32°F is equal to .....

- a) 212 °C                      b) 212 K                      c) 273.15 K                      d) 273.15 0C

2) The boiling point of water is .....

- a) 212 K                      b) 212 °F                      c) 273.15 K                      d) 32 °F

**Q.1(B) : Solve any one of the following question**

1

1) Write true or false.

Atoms of a solid are free

2) Find the odd one out

373.15K , 100°C, 212°F, 32°F

3) Write the unit of Specific heat .

**Q.2(A) : Give reason (Any One)**

2

1) Mercury has been replaced by alcohol in a thermometer.

2) Rails have gaps at specific distances.

**Q.2(B): Solve any two of the following question.**

4

1) Nishigandha kept a vessel containing all the ingredients for making tea in a solar cooker. Shivani kept a similar vessel on a stove. Whose tea will be ready first and why?

2) When a substance having mass 3 kg receives 600 cal of heat, its temperature increases by 10 °C. What is the specific heat of the substance?

3) What is the difference between heat and temperature ? what are their units.

4) What is the relation between the temperature in °C and the temperature in °F?

**Q.3 : Solve any two of the following question.**

6

1) Describe a clinical thermometer. How does it differ from the thermometer used in a laboratory?

2) At 15°C the height of Eifel tower is 324 m. If it is made of iron, what will be the increase in length in cm, at 30°C?

3) Explain with the help of formulae the expansion coefficients of liquid.

4) Define coefficient of linear expansion of a solid . Write the formula for it and its unit.

**Q.4 : Solve any One of the following question.**

5

1) Explain the construction of a calorimeter. Draw the necessary figure.

2) How will you determine the specific heat of a metal using a calorimeter.

\* \* \*

# BECOME AN ACE IN JEE & NEET



**SHIKSHA CLASSES**

Believe & Achieve

**JEE | NEET | Previs (8-10)**

📞 8625055707 | 8623085707    🌐 [shikshaclasses.co.in](https://shikshaclasses.co.in)

M-19, MHADA Colony, Khat Road, Bhandara



Learn with Jaiswal sir