Std.: 8 (English) **General Science** **Marks: 20**

Date: **Time: 1 hour**

Chapter: 14

Q.1 A) Choose the correct alternative and rewrite the sentence **(2)**

1)

$\triangle$T is the change in ....

a. Constant pressure   b. Initial volume

c. Temperature   d. Final volume

2) A large amount of heat is generated due to ....

a. Nuclear Fusion   b. Sun   c. Chemical energy   d. Earth

Q.2 B) Solve the following questions. **(3)**

1) State True or False **(1)**

1) Heat flows from an object at higher temperature to an object at lower temperature.

2) Find the odd one out **(1)**

1) Copper, Iron, Mercury, Gold

3) Name the following **(1)**

Name the units in which temperature is measured.

Q.2 Solve the following questions. (Any two) **(4)**

1) Solve the numerical problem:

How much heat will be needed to raise the temperature of 1.5 kg of water from 15ºC to 45ºC ? Give the answer in calories as well as in Joule.

2) Complete the given table

Description	°F	°C	K
Freezing point of water	....	0	....
Boiling point of water	....	100	....

3) Differentiate the following

Thermometer and Calorimeter.

Q.3 Answer the following in detail (Any TWO) **(6)**

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?
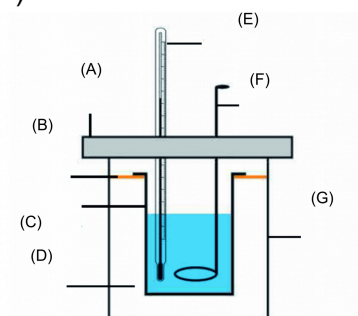
2) Explain with the help of formulae the expansion coefficients of liquid and gas.

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

Q.4   Solve the following questions. (Any one)   **(5)**

1)   1) Label the calorimeter

2) Enlist the part of calorimeter and explain.

2)   Explain heat and temperature with the diagram of Motion of atoms in gas and solid.