



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Physical Science

Class: 8

Date: 13.04.20

Duration: 40 min

Worksheet 6

Full Marks: 15

HEAT/ THERMAL EXPANSION OF SOLIDS

Choose the Correct options:

1. Space between molecules of a substance is called
Ans (a) Interstitial spaces (b) Intermolecular void (c) Vacuum (d) Interstitial cells
2. Expansion of a solid is of the following types
Ans (a) Linear (b) Superficial (c) Cubical (d) All of these
3. Linear expansion can be observed in a
Ans (a) Iron rod (b) Steel plate (c) Copper block (d) Rubber balloon
4. In linear expansion, the expansion in breadth and width is
Ans (a) Infinite (b) Infinitesimal (c) Irrelevant (d) Unknown
5. The linear expansion of solid depends on the following
Ans (a) Original length (b) Material (c) Temperature Change (d) All of these
6. Which of the following expands the most?
Ans (a) Copper (b) Iron (c) Aluminium (d) Brass
7. Coefficient of linear expansion depends on
Ans (a) Original length (b) Material (c) Temperature Change (d) All of these
8. The SI unit of linear expansion is
Ans (a) per kelvin (b) per °C (c) per °F (d) per calorie
9. Superficial expansion can be observed in a
Ans (a) Glass rod (b) Copper plate (c) Wooden block (d) Water bubble
10. In Superficial expansion, the expansion in width is
Ans (a) Infinite (b) Infinitesimal (c) Irrelevant (d) Unknown
11. The Superficial expansion of solid depends on the following
Ans (a) Original Area (b) Material (c) Temperature Change (d) All of these
12. Coefficient of Superficial expansion depends on
Ans (a) Original Area (b) Material (c) Temperature Change (d) All of these
13. The Cubical expansion of solid depends on the following
Ans (a) Original Volume (b) Material (c) Temperature Change (d) All of these
14. Coefficient of Cubical expansion depends on
Ans (a) Original Volume (b) Material (c) Temperature Change (d) All of these
15. Coefficient of linear, superficial and cubical expansion of a substance give the ratio
Ans (a) 1:2:3 (b) 3:2:1 (c) 1:3:2 (d) 2:3:1