



ST. LAWRENCE HIGH SCHOOL
A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Physical Science

Class: 8

Date: 27.02.21

Duration: 40 min

Worksheet Solution 13

Full Marks: 15

HEAT/ APPLICATIONS OF THERMAL EXPANSION

Choose the Correct options:

1. The cylindrical rod used to join metal plates using thermal expansion is called
Ans (a) Nail (b) Screw (c) **Rivet** (d) Pin
2. The breaking of a glass tumbler on pouring hot water can be prevented by a
Ans (a) **Steel spoon** (b) Glass rod (c) Pyrex capillary tube (d) none
3. Small gap is left between railway tracks to avoid
Ans (a) **Bending** (b) Breaking (c) Melting (d) Vibrating
4. One end of the steel girders of a bridge is kept on rollers to allow for
Ans (a) **Expansion** (b) Contraction (c) Movement (d) All of these
5. A bimetallic strip bends due to
Ans (a) **Unequal expansion** (b) Anomalous expansion (c) Brittleness (d) Ductility
6. A bimetallic strip is used in
Ans (a) Fire alarm (b) Refrigerator (c) Air conditioner (d) **All of these**
7. Telephone wires laid in summer are left sagging to allow.
Ans (a) Expansion (b) **Contraction** (c) Tension (d) Conduction
8. Type of glass used as ovenware for baking is
Ans (a) Borosil (b) Tupperware (c) **Pyrex** (d) Cello
9. Which of the following works on the principle of thermal expansion?
Ans (a) Barometer (b) Manometer (c) **Thermometer** (d) Altimeter
10. Why radiators are not completely filled?
Ans (a) **Thermal expansion** (b) Diffusion (c) Contraction (d) Dispersion
11. Medicine bottles sent to warmer countries have spaces to allow expansion of
Ans (a) Solid (b) **Liquid** (c) Gas (d) None of these
12. Automobile tyres are filled with less air in summer to prevent
Ans (a) Skidding (b) **Bursting** (c) Melting (d) Squeaking
13. On what principles do gas thermometers work?
Ans (a) Thermal expansion of liquid (b) Thermal expansion of glass (c) **Thermal expansion of gases** (d) None of these
14. The aim of an explosion is to create a large
Ans (a) sound (b) cloud (c) **force** (d) fire
15. Unequal expansion is minimized in glass dishes by making them
Ans (a) thick (b) **thin** (c) square (d) round