



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Physical Science

Class: 8

Date: 14.04.20

Duration: 40 min

Worksheet Solution 8

Full Marks: 15

HEAT/ APPLICATIONS OF THERMAL EXPANSION

Choose the Correct options:

- The cylindrical rod used to join metal plates using thermal expansion is called
Ans (a) Nail (b) Screw (c) **Rivet** (d) Pin
- 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
- Small gap is left between railway tracks to avoid
Ans (a) **Bending** (b) Breaking (c) Melting (d) Vibrating
- 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**
- A bimetallic strip bends due to
Ans (a) **Unequal expansion** (b) Anomalous expansion (c) Brittleness (d) Ductility
- A bimetallic strip is used in
Ans (a) Fire alarm (b) Refrigerator (c) Air conditioner (d) **All of these**
- Telephone wires laid in summer are left sagging to allow.
Ans (a) Expansion (b) **Contraction** (c) Tension (d) Conduction
- Type of glass used as ovenware for baking is
Ans (a) Borosil (b) Tupperware (c) **Pyrex** (d) Cello
- Which of the following works on the principle of thermal expansion?
Ans (a) Barometer (b) Manometer (c) **Thermometer** (d) Altimeter
- Why radiators are not completely filled?
Ans (a) **Thermal expansion** (b) Diffusion (c) Contraction (d) Dispersion
- Medicine bottles sent to warmer countries have spaces to allow expansion of
Ans (a) Solid (b) **Liquid** (c) Gas (d) None of these
- Automobile tyres are filled with less air in summer to prevent
Ans (a) Skidding (b) **Bursting** (c) Melting (d) Squeaking
- 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
- The aim of an explosion is to create a large
Ans (a) sound (b) cloud (c) **force** (d) fire
- Unequal expansion is minimized in glass dishes by making them
Ans (a) thick (b) **thin** (c) square (d) round