



ST. LAWRENCE HIGH SCHOOL
A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Physical Science
Duration: 40 min

Class: 8
Worksheet 13

Date: 27.02.21
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