## ST. LAWRENCE HIGH SCHOOL A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Physical Science
Duration: 40 min

Class: 8
Worksheet 7

Date: 14.04.20
Full Marks: 15

## HEAT/ THERMAL EXPANSION OF LIQUIDS AND GASES

## Choose the Correct options:

1. The only expansion that takes place in a general liquid is

Ans (a)Linear (b)Superficial (c)Cubical (d)Anomalous
2. Compared to solids, for the same rise in temperature, liquids expand
Ans (a)more
(b)less
(c)equally
(d) none
3. Water shows anomalous behaviour between
Ans
(a) 0 and $4^{\circ} \mathrm{C}$
(b) 10 and $14^{\circ} \mathrm{C}$
(c) 14.5 and $15.5^{\circ} \mathrm{C}$
(d) 0 and $-4{ }^{\circ} \mathrm{C}$
4. Which of the following expands the most
Ans (a) Water
(b) paraffin
(c) benzene
(d) alcohol
5. The expansion of liquid observed in an experiment includes

Ans
(a)The expansion of the containing vessel
(c) Temperature
(d) All of these
6. Compared to the observed expansion in a liquid, the actual expansion is
Ans (a)more
(b)less
(c)equally
(d) none
7. Which of the following expands the most
(a) Hydrogen
(b) Oxygen
(c) Nitrogen
(d) All expand equally
8. Compared to liquids gases expand
Ans (a)more
(b)less
(c)equally
(d) none
9. Anomalous expansion of water leads to

Ans
(a) Floating of
(b) Formation of
(c) Melting of ice
(d) None of these iceberg snow
10. When a chapatti is heated it swells because of thermal expansion of

## Ans

(a) solid
(b) liquid
(c) gas
(d) Both (a) and (c)
11. Water is cooled from $4^{\circ} \mathrm{C}$ to $0^{\circ} \mathrm{C}$. It shows
Ans (a)Expansion
(b) Contraction
(c) Cavitation
(d) Crystallization
12. Water expands when heated above
Ans (a) $-4^{\circ} \mathrm{C}$
(b) $0^{\circ} \mathrm{C}$
(c) $4^{\circ} \mathrm{C}$
(d) $14.5^{\circ} \mathrm{C}$
13. Rise of liquid level of a container on heating depends on
Ans (a)Container material
(b) Liquid
(c) Temperature Change
(d) All of these
14. What is the order of magnitude of expansion of liquid
Ans
(a) $10^{-6}{ }^{\circ} \mathrm{C}^{-1}$
(b) $10^{-4} \mathrm{C}^{-1}$
(c) $10^{-5} \mathrm{C}^{-1}$
(d) $10^{-2}{ }^{\circ} \mathrm{C}^{-1}$
15. The coefficient of thermal expansion of all gases is

Ans
(a)same
(b) different
(c) variable
(d) None of these

