

(a)same

## ST. LAWRENCE HIGH SCHOOL

## A JESUIT CHRISTIAN MINORITY INSTITUTION

**Sub: Physical Science** Class: 8 Date: 14.04.20 **Duration: 40 min Worksheet Solutions 7** Full Marks: 15

## **HEAT/ THERMAL EXPANSION OF LIQUIDS AND GASES**

	e the Correct option			
1.	The only expansion that takes place in a general liquid is			
Ans	(a)Linear	(b)Superficial	(c)Cubical	(d)Anomalous
2.				
Ans	(a)more	(b)less	(c)equally	(d) none
3.	Water shows anomalous behaviour between			
Ans	(a) 0 and 4 °C	(b) 10 and 14 °C	(c) 14.5 and 15.5 °C	$C$ (d) 0 and -4 $^{\circ}C$
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 (b) Condu	action (c) Tempe	erature (d) All of these
	the containing vessel Change			
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			
Ans	(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.	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.	11. Water is cooled from 4 °C to 0 °C. It shows			
Ans	(a)Expansion	(b) Contraction	(c) Cavitation (d)	Crystallization
12.	Water expands wh	en heated above		
Ans	(a) -4 °C	(b) $0  {}^{\circ}$ C	(c) 4 °C	(d) 14.5 °C
13.	Rise of liquid leve	l of a container on	heating depends on	
Ans	(a)Container mate	erial (b) Liquid	(c) Temperature Cl	nange (d) All of these
14.	What is the order of	of magnitude of exp	pansion of liquid	
Ans	$(a)10^{-6} {\rm ^{o}C^{-1}}$	(b) 10 <sup>-4</sup> °C <sup>-1</sup>	(c) $10^{-5}$ °C <sup>-1</sup>	(d) $10^{-2}$ °C <sup>-1</sup>
15.	The coefficient of	thermal expansion	of all gases is	
Ans	(a)same	(b) different	(c) variable	(d) None of these