

S.N.

Page No. 01 Date: 14 / 09 /21

Aim: To determine the density of glass slab by using

\* Apparatus: Vernier Callipers, glass slab

Theory: \* Least count of Vernier callipers = 0.01 cm \* Measured distance = Main Scale reading (x) + (vernier scale Reading (y) x Least count) \* Mass of glass slab: 200g

Table for Length of a glass slab:-

Main scale	e vernier			1
1		(L.C)	Mean	+
x	y	l=2c+4 (cm)	(1)	
8	O	8.0		+
8	0	8·D .	⇒ 32.0	+
8	0	8.0	4	
8	0	8.0	⇒ 8.0 cm	+
	reading (cn	Main scale vernier reading (cm) scale x y 8 0 8 0 8 0	reading (cm) scale (L.C) $x$ $y$ $l=x+y$ (cm) $8$ $0$ $8\cdot 0$ $8$ $0$ $8\cdot 0$	seading (cm)scale(L.C)Mean $x$ $y$ $l=x+y'(cm)$ (1) $8$ $0$ $8 \cdot 0$ $32 \cdot 0$ $8$ $0$ $8 \cdot 0$ $4$

Teacher's Signature .....



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Page No. 02

Date: / /20

Table for breadth of glass slop -

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-	M.S.R (x)	V·S·R(y)	L= x+yx (L.C)	Mean (b)	
-	5.4	5	5.4+5 x 0.01 = 5.45	5.45+5.53+5.54+5.52	
-	5.5	3	$5.5 + 3 \times 0.01 = 5.53$	4	
-	5.5	4	5.5+4x0.01 = 5.54 cm	⇒ 5.51 cm	
	5.5	2	5.5+2×0.01=5.52cm	7 3.51411	

Table for height of glass slab >

					_
S.N.	M·S·R(x)	V·S·R(y)	L = x + y × (L.C)	Mean (h)	
1.	1.8	9	$1.8 + 9 \times 0.01 = 1.89 \text{ cm}$	1.89 + 1.89 + 1.86 + 1.87	
2.	1.8	9	$1.8 + 9 \times 0.01 = 1.89 \text{ cm}$	Ч	
3.	1.8	6	$1.8 + 6 \times 0.01 = 1.86 \text{ cm}$	⇒ 1.87 cm	
4.	1.8	7	1.8 + 7x0.01 = 1.87cm		
					_

Calculation:

Volume = Length x breadth x height = 8.0 x 5.51 x 1.87

= 82.4296 cm3

Pensity = mass volume

 $= 200 = 2.4263 \text{ g/cm}^3 \text{ flux}$ 82.4296



Page N	10.03	
Date:	1	/20

_	Date: / /20
4	Precautions >
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•	Press the james gently.
•	Before starting the experiment, the working of vernier
-	Callipers should be carefully examined.
•	correlation collected and zero error should be
	Press the james gently.  Before starting the experiment, the working of vernier callipers should be carefully examined.  The vernier constant and zero error should be carefully calculated and recorded.
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4	Teacher's Signature
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