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**Diffraction due to surface tension waves on water**

**Part C: Measurement of angle,  $\theta$**

[C1]

**Table C1**

Obs. No.		
1		
2		
3		
4		
5		
6		

**Marks**

[C2]

Graph C1 for determination of  $\theta$ : \_\_\_\_\_ versus \_\_\_\_\_

$\theta =$  \_\_\_\_\_

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**Part D: Determination of the surface tension of the liquid**

[D1]:

$l_1 =$ _____	$l_2 =$ _____	$L =$ _____
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[D2]:

**Table D1**

Obs. No.					
1					
2					
3					
4					
5					
6					

[D3]:

**Marks**

**Graph for determination of  $q$ : \_\_\_\_\_ versus \_\_\_\_\_**

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**Table D2**

Obs. No.		
1		
2		
3		
4		
5		
6		

Slope = \_\_\_\_\_

$q =$  \_\_\_\_\_

Equation 2:

**Determination of surface tension:**

[D4]:

Graph for determination of  $\sigma$ : \_\_\_\_\_ versus \_\_\_\_\_

**Marks**

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**Table D3**

Obs. No.		
1		
2		
3		
4		
5		
6		

Slope = \_\_\_\_\_

**Marks**

Surface Tension:

$$\sigma = \underline{\hspace{2cm}}$$

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**Part E: Determination of the viscosity of the water sample**

[E1]: Frequency of the signal generator = \_\_\_\_\_ Hz

**Table E1**

Obs. No.				
1				
2				
3				
4				
5				
6				

**Marks**

[E2]:

Graph for determination of  $\delta$ : \_\_\_\_\_ versus \_\_\_\_\_

$$\delta = \underline{\hspace{2cm}}$$

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**[E3]:**

Determination of viscosity,  $\eta$ :

$$\eta = \underline{\hspace{2cm}}$$

<b>Marks</b>
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