

Student Code —**ANSWER SHEET****Part 1. Calibration**

$$\alpha =$$

$$C_s =$$

**Part 2. Determination of geometrical shape of a parallel plate capacitor**PATTERN I: The expected graph of  $C$  versus the positions of the upper platePATTERN II: The expected graph of  $C$  versus the positions of the upper plate

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PATTERN III: The expected graph of  $C$  versus the positions of the upper plate

From the experiment, the geometrical shape of the parallel plate capacitor is

☐ Pattern I

☐ Pattern II

☐ Pattern III

 $b =$ 
 $w =$ 

### Part 3. Resolution of digital calipers

The smallest distance that can be measured at  $f \approx 5$  kHz is

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