





Student Code

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ANSWER SHEET

(2) Plot a proper data in the graph paper to determine the resonance frequency  $f_{RO}$  and the quality factor  $Q$ . Record  $f_{RO}$  and  $Q$  in the following blank.

$f_{RO} =$  ;  $Q =$







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- (3) Plot  $f_R$  as a function of  $y$  on a graph paper to determine the position of magnet  $M_B$ . Mark the positions of magnets  $M_A$  and  $M_B$  on the  $y$ -axis of your graph, and write down the value of  $\overline{AB}$  on the answer sheet.

$\overline{AB} =$

- (4) Determine the depths  $d_A$  and  $d_B$  of the magnets  $M_A$  and  $M_B$  from the top surface of the black box using the results in Exp. I-B. Write down the values of  $d_A$  and  $d_B$  on the answer sheet.

$d_A =$  ;  $d_B =$