## Theory





## Water and Objects (10 pt)

Part A. Merger of water drops (2.0 point)	
<b>A.1</b> (2.0pt)	
v =	
Part B. A vertically placed board (4.5 points)	
<b>B.1</b> (0.6pt)	
P =	
<b>B.2</b> (0.8pt)	
$f_x =$	
<b>B.3</b> (0.8pt)	
$f_x =$	
<b>B.4</b> (0.8pt)	
a =	
$\ell =$	

## Theory





<b>B.5</b> (1.5pt)	
z(x) =	
z(t) =	
Part C. Interaction between two rods floating on the water surface (3.5 points)	
<b>C.1</b> (1.0pt)	
$F_x =$	
<b>C.2</b> (1.5pt)	
$F_x =$	
6.2 (4.0 m.)	
<b>C.3</b> (1.0pt)	
$z_0 =$	