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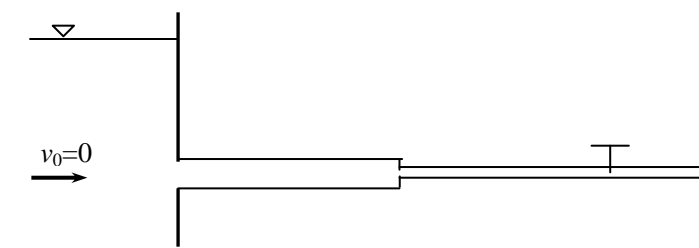
**一、简答题（共 5 小题，其中 1 题 8 分，2、3 题各 10 分，4 题 6 分，共 34 分）**

- 1 8
- 2 10
- 3 10
- 4 6

**二、论述题（共 3 小题，每小题 15 分，共 45 分）**

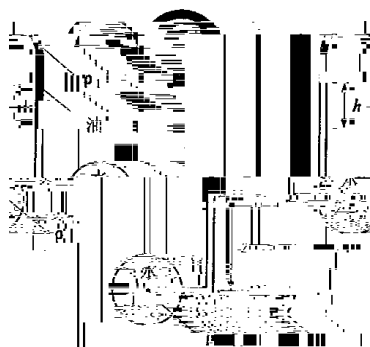
- 1 15
- 2 15
- 3 15

**三、作图题（10 分）**

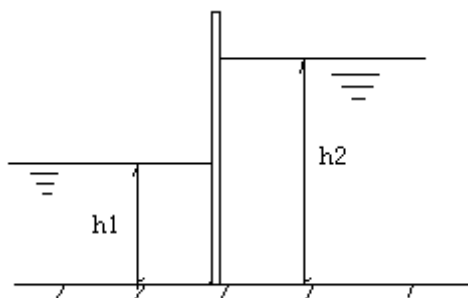


四、计算题 (共 6 小题, 其中 1,2,3,4 每小题 10 分, 5 题 8 分, 6 题 13 分, 共 61 分)

1. 10  $z = 0.2m$  U  
 $h = 0.1m$   $\rho_1 = 920.0kg/m^3$   $\rho = 1000.0kg/m^3$



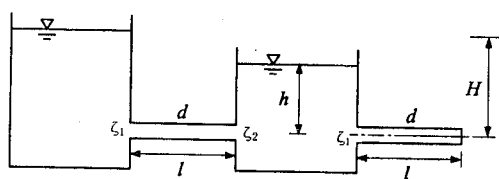
2. 10  $b = 2m$   $h_1 = 3m$   $h_2 = 6m$



- $10m$   $d = 100mm$   $\lambda = 0.025$

$\xi_1 = 0.5$   $\xi_2 = 1.0$

$h = 3m$



4 (10 )

$$d_1 = 200\text{mm}$$

$$d_2 = 100\text{mm}$$

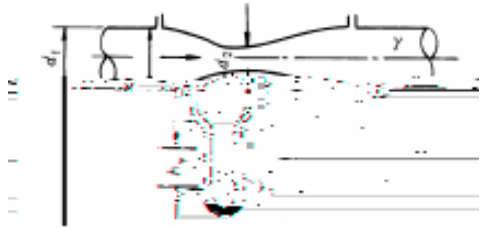
$$\gamma = 8.50\text{kN} / \text{m}^3$$

$$\gamma_p = 136.0\text{kN} / \text{m}^3$$

$$\mu = 0.95$$

$$h_p = 150\text{mm}$$

Q



5. (8 )

$$b = 10\text{m}$$

$$h = 3\text{m}$$

$$m = 1$$

$$n = 0.014$$

$$i = 0.001$$

Q

6. 13

$$d_1 = 0.15\text{m}$$

$$d_2 = 0.03\text{m}$$

$$Q = 0.03\text{m}^3 / \text{s}$$

