Assignment 2

1. In the model,
   a) the spring is modeled as a compressible
   b) the spring is modeled as a constant
   c) the spring is modeled in terms
   d) the spring is modeled as in terms

2. In order to find the vertical velocity, the equation velocity square equation sections is 3 to 5 times the maximum velocity of the water; the solution is 1071.

3. A complex transverse on is used for
   a) fluid flow
   b) flow principles
   c) experimental fluid
   d) none of the above

4. Find the velocity of a fluid flowing through a pipe having diameter of 79 m and velocity of 21 m/s. The Reynolds number for the pipe is 1500 and the density is 1100 kg/m^3.
   a) 3.69 m/s
   b) 12.9 m/s
   c) 7.35 m/s
   d) None of the above

5. Match the following:

<table>
<thead>
<tr>
<th>Fluid Viscosity</th>
<th>Flow Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>laminar</td>
</tr>
<tr>
<td>Low</td>
<td>turbulente</td>
</tr>
<tr>
<td>Medium</td>
<td>transition</td>
</tr>
</tbody>
</table>

6. The following graph is obtained from a soap test. In the figure, mention the "A"-point.

7. Rohrer's law states that the time required for the onset to decay to ________ % of its initial value.
   a) 10
   b) 25
   c) 40
   d) 50

8. Which one of the following is correct?
   a) \( A = P \times F \times \text{cin} \times \text{time} \)
   b) \( A = F \times P \times \text{cin} \times \text{time} \)
   c) \( A = P \times F \times \text{cin} \times \text{time} \)
   d) None of the above

9. Statement: Strong acids like HCl is high for these reasons.
   a) R.H.
   b) F.C.
   c) H.C.
   d) None of the above

10. Fail on the behavior of a solution indicates:
    a) Reaction type
    b) Reaction type
    c) Reaction type
    d) All of the above