Assignment

1. In the following, the new plant is to invest in a new plant in India. What is the reason for this investment?

2. What is the following called? Sizing of heat exchanger

3. In a process industries, the units are to be ordered to meet the following schedule for the next six months: (month 1 to 6)

<table>
<thead>
<tr>
<th>Month</th>
<th>Units</th>
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<tbody>
<tr>
<td>1</td>
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<td>6</td>
<td>35</td>
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4. What is the following called? Regelation control

5. The following information is given for a chemical process plant. Write the mass balance:
   - Feed: 50 kg/h
   - Mass flow: 30 kg/h
   - Product: 40 kg/h

6. The following chromatogram shows the separation of components of a mixture. Identify the components.

7. The following is the time versus volume of flow. Identify the type of process.

8. What is the following called? Shifting of equilibrium

9. The following is the reaction rate equation. Identify the type of reaction.

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