Assignment 4

Due date for submitting this assignment has passed. As per your records you have not submitted this assignment.

1. The new service facility is targeted to serve seven soil agencies in Delhi. The table shows the coordinates of the center of each soil agency, along with the projected population. Customers will travel from the seven soil agency centers to the new facility when they need it. Two locations are being considered for the new facility and are (A, C, D, E, F, G) and (H, I, J, K, L, M). The best location, according to total town resident score is...

<table>
<thead>
<tr>
<th>Location</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>2</td>
</tr>
<tr>
<td>B</td>
<td>1</td>
</tr>
<tr>
<td>C</td>
<td>4</td>
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<tr>
<td>D</td>
<td>3</td>
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<tr>
<td>E</td>
<td>5</td>
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<tr>
<td>F</td>
<td>6</td>
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<tr>
<td>G</td>
<td>7</td>
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<tr>
<td>H</td>
<td>8</td>
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<tr>
<td>I</td>
<td>9</td>
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<td>J</td>
<td>10</td>
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<tr>
<td>K</td>
<td>11</td>
</tr>
<tr>
<td>L</td>
<td>12</td>
</tr>
<tr>
<td>M</td>
<td>13</td>
</tr>
</tbody>
</table>

2. The objective of total load assessment method is...

   a. To maximize the total product demand of the facility
   b. To minimize the inappropriateness constraint of the facility
   c. To maximize the total weighted load moving in and out of the factory
   d. To minimize the total weighted load moving in and out of the factory.

3. Center of gravity method is...

   a. A method that determines the location of a facility that will minimize shipping cost and travel time to various destinations
   b. A method that determines the location of a facility closest to the main supplier
   c. A method that determines the location of a facility closest to the main customer
   d. A method that determines the location of a facility closest to the middle point of all suppliers.

4. Need for selection of facility location is when...

   a. The existing business unit has new/other needs to its original facilities and expansion is not possible
   b. Business is newly started
   c. The existing store and the location does not reuse the lease
   d. All of these

5. Layout preferred for the production of very large ships is...

   a. Product layout
   b. Process layout
   c. Fixed position layout
   d. Cellular layout

6. Layout in which raw material is fed to the first machine and the finished product comes out from the last machine is...

   a. Process layout
   b. Product layout
   c. Fixed position layout
   d. Cellular layout

7. The product layout primarily involves the case of...

   a. Special purpose machines and skilled worker
   b. General purpose machine and semi-skilled worker
   c. General purpose machine and semi-skilled worker
   d. Special purpose machine and semi-skilled worker

8. Return on investment is determined as...

   a. Total return on investment
   b. Total return on investment
   c. Total return on investment
   d. Total return on investment

9. Irrigation plant helps in...

   a. Minimum material handling cost
   b. Minimum material handling cost
   c. Minimum material handling cost
   d. Minimum material handling cost

10. The advantage of product layout is...

    a. So many variety of product can be produced
    b. Maximum return on investment
    c. Production in limited quantity
    d. All of the above

11. Minimum material handling cost is...

    a. Return on investment
    b. Return on investment
    c. Return on investment
    d. Return on investment

12. The best location, according to total town resident score is...

    a. Location A
    b. Location B
    c. Location C
    d. Location D