### Assignment 2

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

1) Which method is used to find PSD?
   - Gates-Gaudin-Schuhmann
   - Screen analysis
   - Both of the above
   - None of the above

   **No, the answer is incorrect.**
   **Score:** 0
   **Accepted Answers:**
   - *Both of the above*

2) If coarse particles are to be discarded from the feed then the final product should be
   - Undersize
   - Oversize
   - Both of the above
   - None of the above

   **No, the answer is incorrect.**
   **Score:** 0
   **Accepted Answers:**
   - *Undersize*

3) A feed consists of 35% coarse particles, which are to be discarded. The oversize and undersize contain 85% and 10%, respectively, coarse particles. The values of $y_A$, $y_B$ and $y_C$ are:
   - $y_A = 0.65$, $y_B = 0.15$, $y_C = 0.9$
   - $y_A = 0.35$, $y_B = 0.85$, $y_C = 0.9$
   - $y_A = 0.35$, $y_B = 0.9$, $y_C = 0.85$
   - $y_A = 0.65$, $y_B = 0.9$, $y_C = 0.15$

   **No, the answer is incorrect.**
   **Score:** 0
   **Accepted Answers:**
   - $y_A = 0.65$, $y_B = 0.9$, $y_C = 0.15$
5) Following is particle size distribution of three cuts obtained from a double deck vibrating screen (35 and 48 mesh). The mass ratio of oversize : intermediate : undersize is 2:3:5.

<table>
<thead>
<tr>
<th>Mesh No.</th>
<th>Mass Fraction Retained</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oversize</td>
</tr>
<tr>
<td>14</td>
<td>0.0021</td>
</tr>
<tr>
<td>20</td>
<td>0.0075</td>
</tr>
<tr>
<td>28</td>
<td>0.178</td>
</tr>
<tr>
<td>35</td>
<td>0.392</td>
</tr>
<tr>
<td>48</td>
<td>0.342</td>
</tr>
<tr>
<td>65</td>
<td>0.068</td>
</tr>
<tr>
<td>100</td>
<td>0.0051</td>
</tr>
<tr>
<td>150</td>
<td>0.0041</td>
</tr>
<tr>
<td>200</td>
<td>0.0012</td>
</tr>
</tbody>
</table>

Calculate effectiveness of 35 mesh taking oversize as desired product.

- 71.0%
- 38.6%
- 44.0%
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers: 71.0%

6) Which is most inefficient screening equipment?

- Gyratory screen
- Trommel screen
- Grizzly screen
- Vibratory screen

No, the answer is incorrect.
7) Which is most efficient screening equipment?  

- Gyratory screen  
- Trommel screen  
- Grizzly screen  
- Vibratory screen  

No, the answer is incorrect.  

Score: 0  
Accepted Answers:  
Grizzly screen

8) With increase the slope of grizzly screen  

- Efficiency decreases  
- Efficiency increases  
- Both A and B may occur  
- Efficiency does not depend on slope  

No, the answer is incorrect.  

Score: 0  
Accepted Answers:  
Efficiency decreases

9) Which has minimum dead zones?  

- Gyratory screen  
- Trommel screen  
- Vibratory screen  
- All of the above  

No, the answer is incorrect.  

Score: 0  
Accepted Answers:  
Vibratory screen

10) In compound trommels feed enters to  

- Finest screen  
- Coarsest screen  
- Both of the above  
- Intermediate screen  

No, the answer is incorrect.  

Score: 0  
Accepted Answers:  
Finest screen

11) Variable slopes are used in  

- Trommel screen  
- Vibratory screen  
- Grizzlies  
- Banana screen  

No, the answer is incorrect.  

Score: 0  
Accepted Answers:  
Banana screen

12) Size reduction of meet is carried out through
13. Energy consumption is minimum for
   - Chock feeding grinding
   - Closed circuit grinding
   - Free crushing
   - Equal in all

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   *Free crushing*

14. Cost of size reduction is maximum for
   - Coarse crushing
   - Intermediate crushing
   - Fine crushing
   - None of the above

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   *Fine crushing*