Week 6 Assignment 6

The due date for submitting this assignment has passed. Due on 2018-03-07, 23:59 IST.

Submitted assignment

1) The efficiency of screening operation _____________ with particle size.  
   - Decreases  
   - Increases  
   - Remains same  
   - None 
   
   **No, the answer is incorrect.** 
   **Score: 0** 
   **Accepted Answers:** 
   - Decreases

2) Screens used for removing very fine particles is called ________________  
   - Media Recovery  
   - Desliming  
   - Grading  
   - Sizing  
   
   **No, the answer is incorrect.** 
   **Score: 0** 
   **Accepted Answers:** 
   - Desliming

3) The chance of passing through the aperture is ___________ proportional to the percentage of open area in the screen material.  
   - Inversely  
   - Directly  
   - Exponentially  
   
   **No, the answer is incorrect.** 
   **Score: 0** 
   **Accepted Answers:** 
   - Directly
4) A stainless steel woven wire screen with a square aperture had an aperture 3.12 mm. the diameter of the wire was 1.45 mm. Determine the percent open area when the screen was operated in a horizontal position.

- 68.27%
- 46.61%
- 51.02%
- 32.96%

No, the answer is incorrect.
Score: 0
Accepted Answers:
46.61%

5) In British Standard Sieves, 200 # = ________ micron.

- 75
- 100
- 45
- 500

No, the answer is incorrect.
Score: 0
Accepted Answers:
75

6) A sample is screened through a 2 mm screen to obtain + 2 mm fraction. The fraction of +2 mm material in the feed is 40%. After screening the fraction of +2 mm material in the overflow product and underflow product are 80% and 14% respectively. Determine the effectiveness of the screen.

- 60.27%
- 56.61%
- 51.02%
- 68.44%

No, the answer is incorrect.
Score: 0
Accepted Answers:
68.44%

7) The overall screening efficiency is markedly reduced by the proportion of ________.

- Fines
- Coarse particles
- Near mesh size particles
- None

No, the answer is incorrect.
Score: 0
Accepted Answers:
Near mesh size particles

8) Large screens are often inclined to aid ________ of ore across the screen.

- Transport
- Increase in speed
9) Near mesh size particles make the screening process ______________.  
- Easier
- Difficult
- Efficient
- None

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

10) The graphical method of assessing separation efficiency in mineral processing is usually referred to as, 
- Mayer Curve
- Washability Curve
- Tromp Curve
- Size analysis curve

No, the answer is incorrect. 
Score: 0 
Accepted Answers: 
Tromp Curve

11) Imperfection (I) = ______________
- (d75 – d25)/2
- (d75 – d25)/2d50
- d50/I
- None

No, the answer is incorrect. 
Score: 0 
Accepted Answers: 
(d75 – d25)/2d50

12) Screen efficiency (η) can be calculated by using which of the following formulae. 
- 𝑃𝑝/𝐹𝑓
- 𝑃 + 𝑈
- 𝑃𝑝 + 𝑈𝑢
- None

No, the answer is incorrect. 
Score: 0 
Accepted Answers: 
𝑃𝑝/𝐹𝑓
13. Which of the following factors does not affect the efficiency of the screen? 
- Moisture
- Screen Angle
- Open area
- Screen Area

No, the answer is incorrect.
Score: 0
Accepted Answers:
Screen Area

14. For fine screening ___________ is preferred.
- Low speed and long stroke
- High speed and short stroke
- Any one
- None

No, the answer is incorrect.
Score: 0
Accepted Answers:
High speed and short stroke

15. Ep = _______________
- \((d_{75} - d_{25})/2\)
- \((d_{75} - d_{25})/2d_{50}\)
- \(d_{50}/I\)
- None

No, the answer is incorrect.
Score: 0
Accepted Answers:
\((d_{75} - d_{25})/2\)