Week 3 Assignment 3

The due date for submitting this assignment has passed. Due on 2018-02-14, 23:59 IST.

Submitted assignment

1) A measure is considered to be accurate if the difference between the measured value and true value falls within acceptable margin?  
   - True 
   - False 
   - Difficult to comment 
   - Partially true 

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

2) The variance between repeated sample is a measure of _______.  
   - Systematic error 
   - Accuracy 
   - Reproducibility 
   - none 

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

3) Keeping the size reduction curves as steep as possible helps in reducing the fines generation. 
   - True 
   - False 

No, the answer is incorrect. 
Score: 0  
Accepted Answers: 
False
4) Mechanism of particle disintegration by two rigid force is called _______.
   - Impact
   - Compression
   - Shear
   - Attrition

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

5) Particle breakage using compressive forces should be avoided if the

   - Material is sticky
   - Material is abrasive
   - Material is hard
   - finished product is to be relatively coarser in size

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - Material is sticky

6) Which one of the following material have the lowest value in Mohs Scale

   - Graphite
   - Diamond
   - Limestone
   - Magnetite

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

7) Size reduction becomes easier with increasing hardness of minerals?

   - True
   - False
   - Vague statement
   - Partially true

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

8) How the power required for crushing is related to the crushing strength of the material?

   - Directly proportional
   - Inversely proportional
   - Independent
   - None

   No, the answer is incorrect.
9) Which one of the techniques gives minimal error in laboratory sampling of mineral particles?  
- Coning and quartering
- Rotary riffle
- Grab sampling
- Random sampling

No, the answer is incorrect.

Score: 0

Accepted Answers:
- Rotary riffle

10) Sampling from the sides of a stockpile is always recommended.  
- True
- False
- Difficult to comment
- Partially true

No, the answer is incorrect.

Score: 0

Accepted Answers:
- False

11) What does Mohs scale help us in identifying a mineral?  
- Cleavage
- Hardness
- Luster
- None

No, the answer is incorrect.

Score: 0

Accepted Answers:
- Hardness

12) Which one of the following grinding mechanism will lead to the generation of products?  
- Cutting
- Compression
- Impact
- Attrition

No, the answer is incorrect.

Score: 0

Accepted Answers:
- Attrition

13) The sampling constant in Gy’s equation is defined as \( c = fg^{\frac{1}{m}} \) where \( f \) represents the shape factor. The shape factor for gold ores is commonly taken as  
- 0.5
- 0.4
14) Which of the following equations represent Gy’s equation? 

- M = \( \frac{(cd^2)}{s^3} \)
- M = \( \frac{(cd^3)}{s^2} \)
- M = \( \frac{cd}{s} \)
- None

No, the answer is incorrect. 
Score: 0
Accepted Answers: M = \( \frac{(cd^3)}{s^2} \)

15) In the Gy’s method, the liberation factor is calculated based on:

- \( l = (L/d)^{0.5} \)
- \( l = L/d \)
- \( l = (L/d)^{0.9} \)
- None

No, the answer is incorrect. 
Score: 0
Accepted Answers: \( l = (L/d)^{0.5} \)