Course outline

How to access the portal

Week 1

- Lecture 1: Importance of Mineral Processing
- Lecture 2: Importance to Mineral Processing (Contd.)
- Lecture 3: Importance of Mineral Processing (Contd.)
- Lecture 4: Importance of Mineral Processing (Contd.)
- Lecture 5: Importance of Mineral Processing (Contd.)
- Quiz: Week 1 Assignment 1
- Feedback for Week 1
- Week 1 Assignment_solution

Week 1 Assignment 1

The due date for submitting this assignment has passed. Due on 2018-02-05, 23:59 IST.

Submitted assignment

1) Natural inorganic substances possessing definite chemical compositions and atomic structures are called ____________.
   - Mineral
   - Rock
   - Ore
   - Gangue

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

2) By definition, Coal is a ____________.
   - Ore
   - Rock
   - Mineral
   - Biomass

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

3) ____________ and ____________ have exactly the same chemical composition, being composed entirely of carbon atoms, but have widely different properties due to the arrangements of carbon atoms within the crystal lattice.
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4) Which of the following is not considered as Coal? **Invalid HTML tag: tag name o:p is not allowed**

- Anthracite
- Bituminous
- Lignite
- Cassiterite

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

5) Cuprite is an ore of ____________.

- Iron
- Lead
- Aluminium
- Copper

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

6) In a mineral processing operation, the concentrate grade and recovery is **Invalid HTML tag: tag name o:p is not allowed**

- Directly proportional
- Inversely proportional
- Equal to each other
- Grade is always greater than recovery

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

7) Chemical methods of ore processing requires __________ energy than ____________ physical methods. **Invalid HTML tag: tag name o:p is not allowed**

- Much More
- Less
- Equal
- Very Less

No, the answer is incorrect.
Score: 0
Accepted Answers:
8) Mineral processing should preferably be carried out at the mine site to reduce.
   - Water cost
   - Electricity cost
   - Transportation cost
   - Grinding cost

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

9) Losses during mineral processing depend very much on the ore mineralogy and on the technology available to achieve efficient concentration.
   - True
   - False
   - Difficult to comment
   - Partially True

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

10) ________ process allowed the exploitation of very low grade copper deposits which were previously uneconomic to treat.
   - Gravity Concentration
   - Magnetic
   - Electrical Separation
   - Froth Flotation

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

11) Which is not a unit step in mineral processing operation?
   - Liberation
   - Transportation
   - Separation
   - Concentration

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

12) Liberation takes place as a result of ________________.
   - Size reduction
   - Size Separation
   - Concentration

   **Score:** 0
Screening

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

13) __________ is the percentage of the total metal contained in the ore that is recovered in concentrate.

- Grade
- Tenor
- Recovery
- Enrichment ratio

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

14) __________ is the ratio of the weight of the feed to the weight of the concentrate.

- Enrichment ratio
- Ratio of concentration
- Yield
- Assay

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

15) An iron ore flotation plant treats 600 tph of iron ore with feed grade 52% to upgrade it to 61% with a concentrate yield of 420 tph. Calculate the recovery (in percentage) of the process.

- 70%
- 66.8%
- 82.1%
- 76.8%

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

82.1%