Week 12 Assignment 12

The due date for submitting this assignment has passed. **Due on 2018-04-18, 23:59 IST.**

**Submitted assignment**

1) High intensity magnetic separators can be used to separate hematite from silica. **2 points**

- [ ] True
- [ ] False

**No, the answer is incorrect.**

**Score:** 0

**Accepted Answers:**

- True

2) Which of the following is not a beach sand mineral? **2 points**

- [ ] Monazite
- [ ] Ilmenite
- [ ] Rutile
- [ ] Chromite

**No, the answer is incorrect.**

**Score:** 0

**Accepted Answers:**

- Chromite

3) What is the correct relationship among magnetic susceptibility (S), field intensity (H), and magnetization (M)? **2 points**

- [ ] \( S = (MH)^2 \)
- [ ] \( S = MH \)
- [ ] \( S = MH \)
- [ ] None

**No, the answer is incorrect.**
5) To separate fine ferromagnetic materials, low intensity magnetic separators are preferred.  
- False
- True

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

6) Magnetic susceptibility is directly proportional to field intensity.  
- True
- False

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

7) The magnetic induction, B, field intensity, H, and magnetization, M, are related by the equation:  
- \( B = (1+\mu_0) HM \)
- \( B = (H+\mu_0) M \)
- \( B = (H+M)\mu_0 \)
- None

No, the answer is incorrect.
Score: 0
Accepted Answers:
\( B = (H+M)\mu_0 \)

8) Low-intensity separators are used to treat ____________ materials.  
- Diamagnetic
- Ferromagnetic
- Weakly paramagnetic
- All

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

9) Which of the following is a diamagnetic material?  
- FeSi
Hematite
Magnetite
Copper

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

10) What is the unit of magnetic field? 2 points

- Ampere
- Tesla
- Jull
- Newton

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

11) 1 Tesla = ____________ gauss 2 points

- 10000
- 1000
- 10
- 100

No, the answer is incorrect.
Score: 0
Accepted Answers:
10000

12) High intensity magnetic separator are generally used for _____________ magnetic material. 2 points

- Strongly
- Weakly
- Moderately
- None

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

13) Electrical separations can be used to separate minerals based on ______________. 2 points

- Conductivity
- Specific gravity
- Surface property
- All

No, the answer is incorrect.
Score: 0
Accepted Answers:
Conductivity
14 The typical separator relying on corona charging is the ________________ separator. 
- Perm roll separator
- Reflux Separator
- High-tension roll (HTR)
- None

No, the answer is incorrect.
Score: 0
Accepted Answers: 
High-tension roll (HTR)

15 The Alumina-Silica ratio in Iron ore should be close to 
- 0.1
- 1
- 2
- 2.5

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