Assignment 3

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

Due on 2019-02-27, 23:59 IST

1) During comminution energy is consumed in

- Heat generation
- Size reduction
- Sound produced
- All of the above

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

2) Work index includes

- Energy consumption to run the crusher without feed and with crushing media
- Energy consumption to run the crusher without feed and crushing media
- Any of the above
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers: Energy consumption to run the crusher without feed and with crushing media

3) 1 ton/h of material A coal is fed to a grinder. The PSDs of feed and product are shown in following table.
Calculate the energy consumption of the grinder if the Work index of material A is 15kWh/ton.

- 6.26 kW
- 5.26 kW
- 4.26 kW
- None of the above

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

4) For Q.No. 3 the actual power consumption, when efficiency of the grinder is 15%, is

- 35.1 kW
- 49.6 kW
- 78.9 kW
- None of the above

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

5) 150kW power is required to crush 90t/h of material. If 80% feed and 80% product pass through 60mm screen and 5mm screen, respectively, find the work index of the material.

- 13.06 kWh/t
- 10.2 kWh/t
- 16.6 kWh/t
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
16.6 kWh/t
6) The intermediate crusher is

- Jaw crusher
- Hammer mill
- Rod mill
- None of the above

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

7) Strokes per revolution are maximum for

- Blake jaw crusher
- Dodge jaw crusher
- Universal jaw crusher
- None of the above

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

8) Toothed roll crusher can handle

- Diamond
- Quartz
- Both of the above
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers: None of the above

9) 5 mm definite size product can be found through

- Jaw crusher
- Scissors
- Granulator
- Ball mill

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

10) Product size is adjustable in

- Jaw crusher
- Smooth roll crusher
- Toothed roll crusher
- All of the above

No, the answer is incorrect.
Score: 0
11) Coal can be crushed in
   - Toothed roll crusher
   - Granulator
   - Both of the above
   - None of the above

   No, the answer is incorrect.
   Score: 0

12) In ball mill fine product can be obtained with
   - Longer residence time
   - Large size balls
   - Both of the above
   - None of the above

   No, the answer is incorrect.
   Score: 0

13) For size reduction of sticky material which machine should be used
   - Ball mill
   - Smooth roll crusher
   - Hammer mill
   - Rod mill

   No, the answer is incorrect.
   Score: 0

14) Steam is used for crushing in
   - Fine impact mill
   - Knife cutter
   - Fluid energy mill
   - None of the above

   No, the answer is incorrect.
   Score: 0

15) Chock feeding condition is observed in
   - Hammer mill
   - Ball mill
   - Both A and B
   - None of the above
No, the answer is incorrect.
Score: 0
Accepted Answers:
Both A and B