

Mechanical Operations Quiz Questions and Answers Pdf

1. The operating speed of a ball mill should be ____ the critical speed.
- less than
 - much more than
 - atleast equal to
 - slightly more than

Ans: A

2. Which of the following screens has the maximum capacity?
- grizzlies
 - trommels
 - shaking screen
 - vibrating screen

As: D

3. A screen is said to be blinded, when the
- oversizes are present in undersize fraction
 - undersizes are retained in oversize fraction
 - screen is plugged with solid particles
 - screen capacity is abruptly increased

Ans: C

4. For efficient grinding, ball mills must be operated
- at a speed less than the critical speed
 - at a speed more than the critical speed
 - at a speed equal to the critical speed
 - with minimum possible small balls

Ans: A

5. Maximum size reduction in a ball mill is done by the ____ action.
- Attrition
 - Compression
 - Impact
 - Cutting

Ans: C

6. Limestone is normally crushed in a
- roll crusher
 - hammer crusher
 - ball mill
 - tube mill

Ans: B

7. The porosity of a compressible cake is
- maximum at the filter medium
 - minimum at the upstream face
 - maximum at the upstream face
 - uniformly equal from the upstream face to the filter medium

Ans: C

8. The resistance offered by cake to the flow of filtrate is
- smallest at the free cake surface
 - smallest at a location immediately adjacent to the filter medium
 - largest at the free cake surface
 - largest at a location immediately adjacent to the filter medium

Ans: D

9. For a constant pressure filtration, a plot of volume of filtrate collected upto a certain time vs. time is a
- straight line passing through origin
 - straight line having a positive intercept
 - section of a parabola
 - section of a hyperbola

Ans: C

10. Sorting classifiers are devices which separate particles having different
- densities
 - molecular weight
 - surface area per unit volume, but same density
 - magnetic properties

Ans: A

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