

Mechanical Operations MCQ Questions and Answers Pdf

Question: 1

Fluid energy mill comes in the category of

- (A) ultrafine grinder
- (B) cutter
- (C) crusher
- (D) grinder

Ans: A

ultrafine grinder

Question: 2

The filtrate flow rate in constant pressure filtration

- (A) may increase or decrease depends on the pressure
- (B) remains constant throughout
- (C) continuously increases
- (D) continuously decreases

Ans: D

continuously decreases

Question: 3

In a gyratory crusher size reduction is effected primarily by

- (A) attrition
- (B) impact

(C) cutting action

(D) compression

Ans: D

compression

Question: 4

The stress pressure is

(A) zero at the filter medium

(B) maximum at the filter medium

(C) maximum at the upstream face

(D) minimum at the filter medium

Ans: B

maximum at the filter medium

Question: 5

Driving force in case of filtration by a centrifuge is the

(A) narrow diameter of the vessel

(B) formation of highly porous cake

(C) speed of the centrifuge

(D) centrifugal pressure exerted by the liquid

Ans: D

centrifugal pressure exerted by the liquid

Question: 6

The most efficient equipment for the removal of sub-micronic dust particles from blast furnace gas is the

- (A) cyclone separator
- (B) electrostatic precipitator
- (C) gravity settling chamber
- (D) venturi atomiser

Ans: B

electrostatic precipitator

Question: 7

For coarse reduction of hard solids, use

- (A) attrition
- (B) compression
- (C) cutting
- (D) impact

Ans: B

compression

Question: 8

Which of the following is a batch sedimentation equipment?

- (A) rotary sprayer scrubber
- (B) dry cyclone separator
- (C) dust catcher
- (D) filter thickener

Ans:D

filter thickener

Question: 9

Weber number is important in the mixing of

(A) liquid soils

(B) liquid gas

(C) liquid-liquid

(D) dispersed liquids

Ans: D

dispersed liquids

Question: 10

Maximum size reduction in a fluid energy mill is achieved by

(A) impact

(B) cutting

(C) compression

(D) interparticle attrition

Ans: D

interparticle attrition

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