

Metallurgical Kinetics and Energy Quiz Questions and Answers

Question: 1

Metal shots used in shot blasting are made of

- (A) Bronze
- (B) Lead
- (C) Steel
- (D) Satellites

Ans: C

Steel

Question: 2

Muntz metal is an alloy of

- (A) Copper and zinc
- (B) Lead and tin
- (C) Ferrous materials
- (D) Magnesium and tin

Ans: A

Copper and zinc

Question: 3

Stainless steel contain

- (A) Aluminium
- (B) Copper

(C) Chromium and nickel

(D) Vanadium

Ans: C

Chromium and nickel

Question: 4

Which is a suitable material for heavier duty bearings?

(A) Nimonic alloys

(B) Monel metal

(C) Phosphor bronze

(D) White metal

[View Answer](#)

Ans: D

White metal

Question: 5

The presence of materials which opposes the creation of magnetic flux in them is called

(A) Reluctance

(B) Resistance

(C) Dielectric

(D) Permeance

Ans: A

Reluctance

Question: 6

As the chemical reaction proceeds, the rate of reaction

- (A) May increase or decrease, depending on the type of reaction
- (B) Remains same
- (C) Increases
- (D) Decreases

Ans: D

Decreases

Question: 7

The reaction rate almost gets doubled for 10°C rise in temperature. This is due to the fact that the

- (A) Value of threshold energy decreases
- (B) Collision frequency increases
- (C) Fraction of molecules having threshold energy increases

Pick out the correct statement.

- (A) A chemical reaction occurs when the energy of the reacting molecule is less than the activation energy of the reaction
- (B) A photochemical reaction is catalysed by light
- (C) Chemical equilibrium is a static state
- (D) Reactions with high activation energies are very temperature sensitive

Ans: D

Reactions with high activation energies are very temperature sensitive

Question: 10

For a zero order reaction, concentration of product increases with the

(A) Increase in initial concentration

(B) Increase in total pressure

(C) Increase of reaction time

(D) Decrease in total pressure

Ans: C

Increase of reaction time

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