

Furnace Technology Quiz Questions and Answers Pdf

1. An example of shaft furnace is
 - a. L.D. converter
 - b. Glass melting tank
 - c. Blast furnace
 - d. Soaking pitAs: C
2. Fuel used in B.F. stove is
 - a. Pulverised coal
 - b. Furnace oil
 - c. Blast furnace gas/mixed gas
 - d. Coke oven gasAs: C
3. Cement kiln is a
 - a. Rotary kiln
 - b. Tunnel kiln
 - c. Natural draft furnace
 - d. Batch furnaceAs: A
4. Combustion of fuel in a furnace with oxygen enriched air results in higher
 - a. Flue gas volume
 - b. Flame temperature
 - c. Fuel consumption
 - d. Stack lossAs: B
5. Which of the following will not conserve energy in a furnace?
 - a. Minimising excess air
 - b. Preheating of stock/charge
 - c. Preheating of combustion air
 - d. Addition of more burnersAs: D
6. In a furnace, high emissivity coatings are most effective on
 - a. Inner surface of furnace
 - b. Outer surface of furnace
 - c. Burner nozzle
 - d. Furnace chargeAs: A
7. Use of higher excess air in an oil fired furnace would result in
 - a. Increased furnace temperature
 - b. Reduced flame temperature

- c. Increased heating rate
- d. Increased furnace production rate

Ans; B

8. Furnace wall heat loss does not depend on the
- a. Temperature of external wall surface
 - b. Velocity of air around the furnace
 - c. Material of stock to be heated
 - d. Thermal conductivity of wall brick

Ans: C

9. An economiser is provided to reuse flue gas heat for preheating the
- a. Fuel
 - b. Stock
 - c. Combustion air
 - d. Boiled feed water

As: D

10. The electric furnace in which heat is produced by a combination of induced current and skin effect is called the _____ furnace.
- a. Arc
 - b. Resistance
 - c. Low frequency induction
 - d. High frequency induction

Ans: D

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