

## Metallurgical Engineering Iron Making & Steel Making Objective Questions

1. Blast furnace slag is mainly molten

- a. Sand
- b. Magnesium silicate
- c. Calcium silicate
- d. Iron pyrite

Ans: C

2. Blast furnace coke should contain a maximum of 2% of

- a. Volatile matter
- b. Phosphorous
- c. Ash
- d. Sulphur

Ans: A

3. Main area of fuel economy in blast furnace operation is to reduce the

- a. Coke rate
- b. Gaseous fuel consumption in stoves
- c. Sensible heat loss from blast furnace gas
- d. Coke dust losses in outgoing B.F. gas

Ans: A

4. Permanent lining in L.D. converters is of \_\_\_\_\_ bricks.

- a. Tar dolomite
- b. Magnesite
- c. Fireclay
- d. Silica

As: B

5. Ingot mould is coated with tar to

- a. Avoid the sticking of ingot to the mould.
- b. Accelerate the rate of solidification

- c. Produce killed steel
- d. Accelerate deoxidation of steel

Ans: A

6. In steel making processes, the ratio of phosphorous content in slag to that in metal of the slag.
- a. Is called dephosphorising index
  - b. Has a higher value for higher basicity
  - c. Has a higher value for higher oxidising power
  - d. All a, b and c

Ans: D

7. Which of the following is not used as a deoxidiser in steel making?
- a. Nickel
  - b. Silicon
  - c. Aluminium
  - d. Manganese

Ans: A

8. Which of the following alloying elements, when added to plain carbon steel, increases its corrosion/oxidation resistance?
- a. Chromium
  - b. Cobalt
  - c. Molybdenum
  - d. Tungsten

Ans: A

9. Which of the following is a demerit of electric arc steel making?
- a. Higher temperature cannot be attained
  - b. Its capacity is low compared to other processes
  - c. It cannot remove sulphur and phosphorous
  - d. All types of steel cannot be made by this process

Ans B

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10. In electric arc process of steel making, use of oxygen helps in accelerating the rate of

- a. Carbon removal
- b. Sulphur removal
- c. Slag oxidation
- d. Coke combustion

Ans: A

11.

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