

## Metallurgical Engineering Thermodynamics and Kinetics Quiz Questions

1. Which of the following is a thermodynamic property of a system?

- a. Concentration
- b. Mass
- c. Temperature
- d. Entropy

Ans: D

2. An irreversible process

- a. is the analog of linear frictionless motion in machine
- b. is an idealised visualization of behaviour of a system
- c. yields the maximum amount of work
- d. yields an amount of work less than that of a reversible process

Ans: D

3. Change of heat content when one mole of compound is burnt in oxygen at constant pressure is called

- a. calorific value
- b. heat of reaction
- c. heat of combustion
- d. heat of formation

Ans: C

4. The point at which both liquid and gaseous phases are identical is called the \_\_\_\_\_ point.

- a. critical
- b. triple
- c. freezing
- d. boiling

Ans: A

5. Entropy change in case of a reversible adiabatic process is

- a. minimum

- b. zero
- c. maximum
- d. indeterminate

Ans: B

6. A thermodynamic system is said to be isopiestic, if there is no \_\_\_\_ change.

- a. temperature
- b. pressure
- c. volume
- d. enthalpy

Ans: B

7. The internal energy of an ideal gas does not change in a/an reversible \_\_\_\_ process.

- a. isothermal
- b. isobaric
- c. adiabatic
- d. isometric

Ans: A

8. The enthalpy change when ammonia gas is dissolved in water is termed as the heat of

- a. Solution
- b. Formation
- c. Dilution
- d. Combustion

Ans: A

9. Which of the following has the least efficiency?

- a. Stream engine
- b. Carnot engine
- c. Diesel engine
- d. Otto engine

Ans: A

10. Carnot cycle is also termed as the constant \_\_\_\_ cycle in thermodynamics.

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- a. Entropy
- b. Pressure
- c. Volume
- d. Heat

Ans: D

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