

By OnlineInterviewQuestions.com

Thermodynamics MCQ Test Quiz

Take Thermodynamics MCQ Quiz To test your Knowledge

Below is few **Thermodynamics MCQ** test that checks your basic knowledge of Electrostatics. This **Thermodynamics MCQ Test** contains around 20 questions of multiple choice with 4 options. You have to select the right answer to a question. You can see the correct answer by clicking the view answer link.

Q1. Which of the following laws is applicable for the behaviour of perfect gas?

- A. Charle's law
- B. Boyle's law
- C. Gas-Lussac law
- **D. All of these**

Q2. The locus of standard liquid line and standard vapour line meets at -

- A. Boiling point
- **B. Critical point**
- C. Ice point
- D. Triple point

Q3. According to kinetic theory of gases, the absolute zero temperature is attained when -

- **A. Kinetic energy of the molecules is zero**
- B. Pressure of the gas is zero
- C. Volume of gas is zero
- D. Specific heat of gas is zero

Q4. The ratio of the indicated thermal efficiency to the air standard efficiency is called

- A. Overall efficiency
- **B. Mechanical efficiency**

- C. Relative efficiency
- **D. Volumetric efficiency**

Q5. The unit of temperature in S.I. units is

- A. Celsius
- B. Centigrade
- C. Fahrenheit
- **D. Kelvin**

Q6. N.T.P. stands for -

- **A. Normal temperature and pressure**
- B. Natural temperature and pressure
- C. Nominal temperature and pressure
- D. Normal thermodynamic pressure

Q7. Which of the following is true for a steady flow system?

- A. mass does not enter or leave the system
- B. mass entering can be more or less than the mass leaving
- **C. mass entering = mass leaving**
- D. None of the mentioned

Q8. which of the following does not changed in a steady flow system?

- **A. volume**
- B. mass
- C. both of the mentioned

Q9. Availability function for a closed system is given by

- A. $U-pV-TS$
- **B. $U+pV-TS$**
- C. $U-pV+TS$
- D. $U+pV+TS$

Q10. When the system is in equilibrium with the surroundings, it must be in

- A. pressure equilibrium
- B. temperature equilibrium
- C. chemical equilibrium
- **D. All of the Above**

Q11. All spontaneous processes terminate at the dead state.

- **A. true**
- B. false

Q12. If the process is irreversible, the useful work is less than the maximum.

- **A. true**
- B. false

Q13. A thermodynamically efficient process would involve _____ exergy loss with _____ rate of entropy generation.

- A. maximum, maximum
- **B. minimum, minimum**
- C. minimum, maximum
- D. maximum, minimum

Q14. A system consisting of more than one phase is known as

- A. Open system
- B. Isolated system
- **C. Heterogeneous system**
- D. Closed system

Q15. The processes or systems that do not involve heat are called

- A. Equilibrium processes
- **B. Adiabatic processes**
- C. Isothermal processes

- D. Steady processes

Q16. The internal energy of a substance depends on

- A. Pressure
- B. Volume
- C. **Temperature**
- D. Velocity

Q17. During throttling process

- A. Entropy does not change
- B. **Enthalpy does not change**
- C. Internal energy does not change
- D. Pressure does not change

Q18. The gas turbine works on

- A. Rankine cycle
- B. Carnot cycle
- C. **Brayton cycle**
- D. Ericsson cycle

Q19. The process that follows the equation $pvn = \text{constant}$, is called

- A. **Polytropic process**
- B. Adiabatic process
- C. Constant volume process
- D. Constant pressure process

Q20. The solubility of a gas in a liquid at small concentration is represented by

- A. Clapeyron equation
- B. Raoult's law
- C. Joules equation
- D. **Henry's law**