

Thermodynamics and statistical mechanics MCQs

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Thermodynamics and statistical mechanics MCQs

1. The term "thermodynamics" comes from the Greek words 'therme' and 'dynamic which means _____.

- A. Heat power
- B. Heat transfer
- C. Heat energy
- D. Heat motion

Answer - Click Here:

A

2. The term "thermodynamics" was first used in 1849 in the publication of a

- A. Lord Kelvin
- B. William Rankine
- C. Rudolph Clausius
- D. Thomas Savery

Answer - Click Here:

A

3. The electrons in an atom which rotate about the nucleus possess what kind of energy?

- A. Translational energy
- B. Spin energy
- C. Sensible energy
- D. Rotational kinetic energy

Answer - Click Here:

D

4. The molecules of gas moving through space with some velocity possess what kind of energy?

- A. Translational energy
- B. Spin energy
- C. Rotational kinetic energy
- D. none of the above

Answer - Click Here:

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A

5. What form of energy refers to those a system possesses as a whole with respect to some outside reference frame, such as potential and kinetic energies?

- A. External energy
- B. The microscopic form of energy
- C. Internal energy
- D. A macroscopic form of energy

Answer - Click Here:

D

6. What type of system energy is related to the molecular structure of a system?

- A. Macroscopic form of energy
- B. Internal energy
- C. Microscopic form of energy
- D. External energy

Answer - Click Here:

C

7. The sum of all the microscopic form of energy is called _____.

- A. Total energy
- B. Phase energy
- C. System energy
- D. Internal energy

Answer - Click Here:

D

8. What does the term "uniform" mean?

- A. No change in volume
- B. No change with time
- C. No change with location
- D. No change with mass

Answer - Click Here:

C

9. What is a process during which the specific volume remains constant?

- A. Isobaric process

B. Isothermal process

C. Isochoric or isometric process

D. Isovolumetric process

[Answer - Click Here:](#)

C

10. What is a process during which the pressure remains constant?

A. Isometric process

B. Isothermal process

C. Isochoric process

D. Isobaric process

[Answer - Click Here:](#)

D

11. What is a process with identical end states called?

A. phase

B. Path

C. Cycle

D. Either path or phase

[Answer - Click Here:](#)

C

12. How many independent properties are required to completely fix the equilibrium state of a gaseous compound state?

A. 4

B. 3

C. 2

D. 1

[Answer - Click Here:](#)

C



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