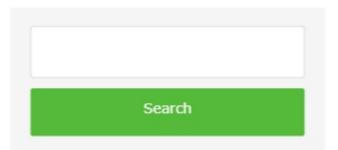
Thermodynamics and statistical mechanics MCQs

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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?



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

A. Translational energy

A. Translational energy

B. Spin energy

C. Sensible energy

■ Answer - Click Here:

D. Rotational kinetic energy

B. Spin energy

D

- C. Rotational kinetic energy
- D. none of the above

Answer - Click Here:

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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