

MDCAT Physics Chapter 8 Heat and Thermodynamics Online Test

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Sr	Questions	Answers Choice
1	A process in which no heat enters or leaves the system is called.	A. Adiabatic process B. Isothermal process C. Isochoric process D. None of these
2	Real gases strictly obey gas laws at:	A. High pressures and low temperatures B. Low pressures and high temperatures C. High pressures and & D. None of these
3	The value of universal gas constant R is:	A. 8.314 J/K mole K B. 8314 J/ mole K C. 8.314 J/ mole K D. None of these
4	According to boyle's law, volume of a given mass of a gas is	A. Inversely proportional mass at constant pressure B. Directly proportional to pressure at constant temprerature C. Inversely proportional pressure at constant temprature D. None of these
5	A gas which strictly obeys the gas laws under all conditions of temperatures and pressure is called:	A. Ideal gas B. Inert gas C. Real gas D. None of these
6	If the temperature difference between hot and cold body is greater the heat engine is:	A. Not efficient B. Less efficient C. More efficient D. NOne of above
7	The relationship between Boltzmann constant K with R and N $\!$	A. $k = RN \le b A \le b$ B. $k = R/N \le b A \le b$ C. $k = NR/N \le b A \le b$ D. None of these
8	The efficiency of a particle heat engine:	A. can be 100% B. Cannot be 100% C. Is always zero D. None of these
9	In thermodynamics, the change in internal energy depends upon:	A. The path taken between initial and final states B. The initial state only C. The final state only D. Initial and final states
10	The rate of change of momentum of a molecule is equal to:	A. Pressure B. Work C. Density D. Force
11	The motion of molecules in gases i:	A. Orderly B. Random C. Circular D. All of these
12	Electromagnetic waves emitted by hot bodies are called:	A. Photoelectrons B. Alpha rats C. Thermal radiation D. None of these
13	A certain engine coverts 20% of available heat energy into work. Then its efficiency will be:	A. 20% B. 80% C. 50% D. None of these
14	In which process the change in internal energy of the system is zero:	A. Isochoric process B. Isobaric process C. Adiabatic process

		D. Isothermal process
15	Petrol engine coverts of available heat energy into work.	A. 20% to 25% B. 25% to 30% C. 30% to 35% D. 35% to 40%
16	Number of spark plugs needed in diesel engine is:	A. Four B. Five C. Six D. None of these
17	If P is the pressure and V is the volume, Then PV will represent:	A. Power B. Work C. Force D. None of these
18	As the working substance of a heat engine completes a cycle, there is no change in:	A. Internal energy B. Pressure C. Volume D. All of these
19	When two objects come to common temperature, the body is said to be in:	A. Static equilibriumB. Dynamic equilibriumC. Thermal equilibriumD. None of these
20	No entropy change is associated with:	A. Isothermal B. Adiabatic process C. Isobaric process D. None of them