Physics ICS Part 1 Chapter 6 Online Test

Sr	Questions	Answers Choice
1	Boyle's law states that " The volume of a given mass of a gas is....."	A. Directly proportional to absolute temperature B. Invesely proportional to absolute temperature C. Directly proportional to density D. Inversely proportional topressure
2	In all natural prcoessees where heat flow from one system to another there is always a net increase in	A. Pressure B. Entropy C. Work D. Volume
3	First law of thermodynamics is based upon law of conservatio of.	A. Mass B. Momentum C. Energy D. Charge
4	The efficiency of carnot engine depends upon	A. Sink temperature B. Source temperature C. Both a and b D. The working substance
5	No entrpy chagne is associated with	A. isothermal process B. Adiabatic process C. Isobaric process D. Isochoric process
6	No entropy change is associated with	A. Isothermal process B. Adiabatic process C. Isobaric process D. Isochoric process
7	In an adiabatic process, there is no.	A. Change in temperature B. Exchagne of heat C. Chagne is internal energy D. Work done
8	Adiabatic change occurs hen the gas expands or compressed.	A. Rapidly B. Slowly C. Gradually D. Moderately
9	Internal energy is similar to the	A. Vibrational K.E. B. Gravitational P.E. C. K.E. D. All of these
10	In an isothermal chagne, internal energy.	A. Decrease B. Increase C. Remain same D. Becomes zero
11	Pressure of a gas is directly proportional to average.	A. Potential energy B. Rotational energy C. Translation K.E D. Compressed P.E.
12	'R' is called	A. Universal constant B. Universal per molecule constant C. Universal gas constant D. All of the above
13	An addition of 400 J of heat casues the increase in internal energy of system is equal	A. 100 J B. 200J

13	to 300 J, then work done will be	C. 300 J D. 400 J
14	Carnot Cycle is	A. Reersible B. Irreversible C. Both D. Cp - Cv = R
15	The chagne in inernal energy is defined as.	A. Q- W B. Q- T C. Q+ P D. Q - P
16	According to kinetic theory of gases, a a finite volume of a gas consts of very	A. Large numebr of molecules B. Small number ofmolecules C. Both a and b D. Large no of ions L
17	A device which covnerts thermal eergy into mechanical energy is called.	A. Turbine B. Heat engine C. Carnot engine D. Rerigerator
18	Effeciency of a carnot engine is.	A. Infinite B. Ten C. Greater than 1 D. Less Than
19	Work done by the system is takn as	A. Positive B. Negative C. Undefined D. None of these
20	When th systme is expanded by additing heat energy, then the work done will be	A. Postive and on the system B. Negative and on the system C. Postive and by the system D. Negative and by the system