PPSC Physics Topic 3 Thermal Properties of Matter

Sr	Questions	Answers Choice
1	Which of the following parameters does not characterize the thermodynamic state of matter.	A. Temperature B. Pressure C. Volume D. work
2	The product of mass and specific heat of a substance is called.	A. Latent heat B. Water equivalent C. Atomic heat D. Heat capacity
3	Which of the following is the ideal gas equation.	A. PV -n RT B. P/V = n RT C. V/P = nR/T D. PV = T/nR
4	Which of the following has negative specific heat	A. Ne B. CO2 C. O2 D. Sturated vapours
5	Which statement about convection is correct.	A. Brownian motion is a form of convection B. Convection occurs only in gas C. Convection results from a density change D. Evaporation is a form of convection
6	Which of the following is a thermodynamic potential	A. Internal energy B. Enthalpy C. Gibb's free energy D. All of these
7	The mechanical equivalent of heat is.	A. Physical quantity B. Constant C. Conversion factor D. Zero
8	On which temperature scale a degree is 1/180 of the interval between the freezing point and the boiling point.	A. Celsius scale B. Fahrenheit scales C. Rankine scale D. Kelvin scale
9	The average K.E. of the molecules of an ideal gas in a closed rigid container is increased by a factor of 4 What happen to the pressure of the gas.	A. It remains the same B. It increases by a factor of 2 C. It increases by a factor of 4 D. It increases by a factor of 8
10	Which of the following is a clinical thermometer.	A. Gas thermometer B. Mercury thermometer C. Alcohol thermometer D. Radiation thermometer
11	First law of thermodynamics is a	A. Boyle 's law B. Charles' law C. Law of energy conservation D. Steffen Boltzmann law
12	The transfer of thermal energy between regions of matter due to a temperature gradient is called.	A. Conduction B. Radiation C. Convection D. Sublimation
13	In the free expansion of a perfect gas there is no.	A. work done B. Heat exchnged C. Internal energy changed D. All of the above
14	A perfect gas is one whose	A. Molecules are masless B. Molecules are energetic C. Molecules are perfectly elastic D. Molecules are at rest
		A. Lowered

15	The door of an operating refrigerator in a closed room is opened after sometime the temperature of the room will be	B. Raised C. Unaffected D. Become zero
16	On what factor the internal energy of a thermodynamic system depend upon.	A. History B. State C. Process D. Surroundings
17	Which of the following in the best container for gas during adiabatic process.	A. Copper vessel B. Thermos flask C. Glass container D. Wooden container
18	The process in which no heat enters or leaves the system is called.	A. Isdobaric B. Isochoric C. Isothermal D. Adiabatic
19	When the temperature of a body is equal to that of the surrounding then the body appears	A. Dull black B. Red hot C. In thermal equilibrium D. To be cold
20	Which of the following has maximum specific heat.	A. Glass B. Iron C. Brass D. Lead