

## PPSC Physics Topic 3 Thermal Properties of Matter

Sr	Questions	Answers Choice
1	The behavior of the gases that can be easily liquefied is like that of the.	A. Triatomic gases B. Ideal gases C. Van der Waals gases D. Diatomic gases
2	Woolen clothing is effective in keeping us warm because.	A. An trapped in the wool acts as an insulator B. Heat loss by convection and radiation is prevented C. Wool is bad conductor and good absorber of heat D. Wool can retain high temperatures
3	An inflated tyre suddenly bursts As a result of this temperature of the surrounding	A. Increases B. Decreases C. Remains constant D. May increase or decrease
4	Why freezer a refrigerator is located in the top section	A. Motor is not affected B. Heat gained from environment is less C. The entire chamber of freezer is cooled quickly D. Heat gained from environment is more
5	The internal inertia of a thermodynamics system is known as.	A. Enthalpy B. Entropy C. Isotherm D. Adiabatic
6	If the gas pressure is increased then its mean free path becomes.	A. More B. Zero C. Infinite D. Less
7	The mechanical equivalent of heat is.	A. Physical quantity B. Constant C. Conversion factor D. Zero
8	How solid hydrogen is obtained.	A. By cascade process B. By joule kelvin effect C. By adiabatic expansion D. Lowering temperature below melting point
9	The heat accepted and rejected by a Carnot engine operating between two heat reservoirs defines.	A. The efficiency of the working substance of the engine B. the ideal gas scale of temperature C. The ratio of the absolute temperature of the reservoirs D. The thermal capacity of the working substance
10	What type of process is the Carnot's cycle.	A. Reversible B. Irreversible C. Neither reversible nor irreversible D. May be reversible or irreversible
11	When a liquid is heated retaining its liquid state then its molecules gain.	A. K.E. B. P.E C. Heat energy D. Chemical energy
12	Which one of the following gases possesses maximum root mean square velocity.	A. Hydrogen B. Oxygen C. Nitrogen D. Carbon dioxide
13	During an adiabatic gas expansion the environment	A. Serves as a heat sink B. Serves as a heat source C. Must be at a higher temperature than the gas D. Does not have to participate

14	If the pressure of a gas is doubled, then its thermal conductivity will	A. Increases B. Decreases C. Remain constant D. Be zero
15	A gas thermometer is more sensitive than a mercury thermometer because the expansion of gas for 1 o/c rise in temperature is.	A. Five times as much as mercury B. Ten times as much as mercury C. Twenty times as much as mercury D. Hundred times as much as mercury
16	The efficiency of a diesel engine is about	A. 15% to 35 % B. 35% to 40% C. 45% to 65% D. 50% to 65 %
17	If two gases have same reduced pressure volume and temperature it is according to	A. Boyle's law B. Charles law C. Law of corresponding state D. Zeroth law
18	The volume of a gas at constant pressure is directly proportional to the temperature as measured on the.	A. Celsius scale B. Kelvin scale C. Fahrenheit scale D. Baume scale
19	Gases exert pressure on walls of the vessels because gas molecules.	A. Possess momentum B. Have finite volume C. Collide with each other D. Obey gas laws
20	What is the necessary condition for Boyle's law to hold good.	A. Isothermal B. Adiabatic C. Isobaric D. Isochoric