

Thermal Properties of Matter

Sr	Questions	Answers Choice
1	When an ideal gas is expanded keeping its temperature constant, its internal energy	A. Increases B. Remains the same C. Decreases D. Cannot be determined
2	Water is not used as a thermometric liquid mainly due to.	A. Non linear expansion B. Colourless C. Low boiling point (100 °C) D. A bad conductor of heat
3	Which of the following can increase the sensitivity of liquid in glass thermometer.	A. Changes colour on temperature B. Use a longer capillary tube C. Use a bigger bulb which contains more amount of liquids D. Using long specific its
4	Temperature of substance is	A. The total amount of heat contained in it B. Degree of hotness or coldness C. The total number of molecules in it D. Dependent upon the intermolecular distance
5	How do the molecules in a solid behave.	A. Move randomly B. Move in a straight line from hot to cold ends C. Vibrate about their mean position D. Rotate and vibrate randomly at their own positions
6	A thermometer has a narrow capillary tube so that it.	A. Gives large change for a given temperature rise B. Quickly responds to temperature changes C. Can read the maximum temperature D. Can measure a large range of temperature.
7	Which thermometer is most suitable for recording rapidly varying temperature.	A. Alcohol in glass thermometer B. Thermocouple thermometer C. Mercury in glass laboratory thermometer D. Mercury in glass clinical thermometer
8	One disadvantage of using alcohol in a liquid in glass thermometer.	A. It wets the glass tube B. It has large expansivity C. It has low freezing point (-112 °C) D. Its expansion is linear
9	What type of motion is of the molecules in a gas.	A. Random motion B. Linear motion C. Vibratory motion D. Rotatory motion
10	Thermometer, which is most suitable for measuring rapidly changing temperatures is.	A. Constant volume gas thermometer B. Resistance thermometer C. Thermocouple D. Liquid in glass thermometer
11	How many phases of matter are there.	A. 2 B. 1 C. 3 D. 4
12	The temperature which has the same value on Celsius and Fahrenheit scale is.	A. -45 B. +40 C. -40 D. +45
13	Which of the following is not a form of internal energy.	A. Light energy B. A kinetic energy of the particles C. Potential energy of the particles D. Chemical energy of the bonds

		between the particles
14	In Kelvin scale, the temperature corresponding to melting point of ice is	A. +273 B. -273 C. 32 D. Zero
15	Which state of matter has particles that are highly compressible and can fill any container.	A. Plasma B. Solid C. Gas D. Liquid
16	Heat is the	A. The energy in transit B. Total kinetic energy of the molecules C. The internal energy D. Work done by the molecules
17	Which one is a better choice for a liquid in glass thermometer is that.	A. Wets glass B. Is colourless C. Is a bad conductor D. Expand linearly
18	Gases and liquids are categorized as.	A. Liquids B. Gases C. Fluids D. Solids
19	Which statement describes the particles structure of gases.	A. Particles are tightly packed and have strong bonds B. Particles have moderate kinetic energy and move randomly C. Particles are arranged in a repeating pattern D. Particles have fixed positions and low kinetic energy
20	What happens to the arrangement of particles when a solid is heated and turns into a liquid	A. Particles change their state from solid to gas B. Particles move farther apart C. Particles become more closely packed D. Particles change their state