

## Physics ICS Part 1 Chapter 11 Online Test

Sr	Questions	Answers Choice
1	Unit of thermodynamics scale of temperature is.	A. Centigrade B. Fahrenheit C. Kelvin D. Celsius
2	Value of triple point of water is given as.	A. Zero K B. 100 K C. 273.16 K D. 373.16 K
3	Efficiency of a heat engine working between 27 °C and 32 °C will be.	A. 50% B. 90% C. 40% D. 62%
4	If the temperature of sink is absolute zero then the efficiency of heat engine should be.	A. 100% B. 50% C. Infinite D. zero
5	If heat engine absorb 400 J and rejects 200 J heat energy, its efficiency will be.	A. 25% B. 50% C. 70% D. 100%
6	A Carnot engine has an efficiency of 50% when its sink temperature is at 27 °C. The temperature of source.	A. 273 °C B. 300 °C C. 327 °C D. 373 °C
7	The efficiency of a Carnot Heat Engine is 100% if temperature of sink T <sub>2</sub> is.	A. 0 °C B. 0 K C. 0 °F D. 100 K
8	A heat engine operates between the temperature 1000 K and 400 K, its efficiency is.	A. 100% B. 70% C. 60% D. 50%
9	In case the work done is zero.	A. Constant pressure B. Constant volume C. Constant temperature D. Constant mass
10	The measure of hotness or coldness of a substance is.	A. Temperature B. Heat C. Internal energy D. Energy
11	The Carnot cycle can be shown by which graph	A. P - T graph B. P - V Graph C. V - T graph D. PV - T graph
12	Carnot cycle consists of.	A. Two steps B. Three steps C. Four steps D. Five steps
13	The curve representing an adiabatic process is called.	A. An adiabatic B. An isotherm C. Both of these D. None of these
14	An ideal heat engine can only be 100% efficient if its cold temperature reservoir is at.	A. 0 K B. 0 °C C. 100 K D. 100 °C
15	An ideal reversible heat engine has	A. 100% efficiency B. Highest efficiency C. 80% D. 90%

16	For working of heat engine, there must be.	A. A source B. A sink C. either of these D. Both of these
17	The efficiency of heat engine whose sink is at $17^{\circ}\text{C}$ and source at $200^{\circ}\text{C}$ is.	A. 38% B. 63% C. 80% D. 90%