1st Year Fsc Physics Online Test

Sr	Questions	Answers Choice
1	The temperature scale which is independent of nature of substance is.	A. Thermodynamic scale B. Centigrade scale C. Fahrenheit scale D. Regnault scale
2	Unite of thermodynamics scale of temperature is.	A. Centigrade B. Fahrenheit C. Kelvin D. Celsius
3	Value of triple point of water is given as.	A. Zero K B. 100 K C. 273.16 K D. 373.16 K
4	Efficiency of a heat engine working between 27 ^{o}C and 32 ^{o}C will be.	A. 50% B. 90% C. 40% D. 62%
5	If the temperature of sink is absolute zero then the efficiency of heat engine engine should be.	A. 100% B. 50% C. Infinite D. zero
6	If heat engine absorb 400 J and rejects 200 J heat energy, its efficiency will be.	A. 25% B. 50% C. 70% D. 100%
7	A Carnot engine has an efficiency of 50% when its sink temperature is at 27 ^{o}C. The temperature of source.	A. 273^oC B. 300 ^oC C. 327 ^oC D. 373 ^oC
8	The efficiency of a Carnot Heat Engine is 100% if temperature of sink T2 is.	A. 0 ^oC B. 0 K C. 0 ^oF D. 100 K
9	A heat engine operates between the temperature 1000 K and 400 K, Its efficiency is.	A. 100% B. 70% C. 60% D. 50%
10	In case the work done in zero.	A. Constant pressure B. Constant volume C. Constant temperature D. Constant mass
11	The measure of hotness or coldness of a substance is.	A. Temperature B. Heat C. Internal energy D. Energy
12	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
13	Carnot cycle consists of.	A. Two steps B. Three steps C. Four steps D. Five steps
14	The curve representing an adiabatic process is called.	A. An adiabatic B. An isotherm C. Both of these D. None of these
15	An ideal heat engine can only be 100% efficient if its cold temperature reservoir is at.	A. 0 K B. 0 ^oC C. 100 K D. 100 ^oC

16	An ideal reversible heat engine has	A. 100% efficiency B. Highest efficiency C. 80% D. 90%
17	For working of heat engine, there must be.	A. A source B. A sink C. either of these D. Both of these