

1st Year Fsc Physics Online Test

Sr	Questions	Answers Choice
1	The efficiency of heat engine whose sink is at 17 °C and source at 200 °C is.	A. 38% B. 63% C. 80% D. 90%
2	For working of heat engine, there must be	A. A source B. A sink C. Either of these D. Both of them
3	The efficiency of diesel engine is about	A. 25 % to 30% B. 35% to 40% C. 40% to 50% D. 50% to 60%
4	No of spark plugs needed in the diesel engine are.	A. 0 B. 1 C. 2 D. 3
5	Which is an example of irreversible process.	A. Explosion B. Evaporation C. Slow compression D. A chemical explosion
6	For a diatomic gas $C_v = 5R/2$ then gamma for this gas is.	A. 5/7 B. 4/3 C. 7/5 D. 35/4
7	The difference between two molar capacities is equal to.	A. Plank's constant B. General gas equation C. Molar gas constant D. Boltzmann constant
8	The work done in isochoric process is.	A. Constant B. Variable C. Zero D. Depend upon condition
9	The difference between two molar capacities is equal to.	A. Plank's constant B. General gas constant C. Molar gas constant D. Boltzmann constant
10	In the thermodynamics process , the equation $W = -\Delta U$ represents.	A. Isothermal expansion B. Isothermal compression C. Adiabatic expansion D. Adiabatic compression
11	the work done in isochoric process is.	A. Constant B. Variable C. Zero D. Depend upon condition
12	the change in internal energy is defined as	A. $Q - W$ B. $Q - T$ C. $Q + P$ D. $Q - P$
13	Entropy remains constant.	A. Isothermal process B. Adiabatic process C. Isochoric process D. Isobaric process
14	Cloud formation in atmosphere is an example of.	A. Isothermal process B. Isochoric process C. Adiabatic process D. Isobaric process
15	Which remains constant in an adiabatic process.	A. Volume B. Pressure C. entropy D. temperature

16	Which is the process in which temperature of the system remains constant.	A. Adiabatic process B. Isochoric process C. Isothermal process D. Isobaric process
17	Which one is true for isothermal process.	A. $Q = 0$ B. $W = 0$ C. $Q = W$ ($\Delta U = 0$) D. None of these