

Name: _____ Hall Ticket No.

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**I Choose the correct alternative:**

- The Gas Constant (R) is equal to the []
 (A) Sum of two specific heats (B) Difference of two specific heats
 (C) Product of two specific heats (D) Ratio of two specific heats
- The heat energy stored in the gas and used for raising the temperature of the gas is known as _____ []
 (A) External energy (B) Molecular energy (C) Kinetic energy (D) Internal energy
- The sum of internal energy (U) and the product of pressure and volume ($p.v$) is Known as []
 (A) Work done (B) Entropy (C) Enthalpy (D) None of the above
- The pressure exerted by an ideal gas is _____ of the kinetic energy of the all the molecules contained in a unit volume of gas []
 (A) $\frac{1}{2}$ (B) $\frac{1}{3}$ (C) $\frac{2}{3}$ (D) $\frac{3}{4}$
- The temperature of air recorded by a thermometer, when it is not effected by the moisture present in the air, is called []
 (A) Wet bulb temperature (B) Dry bulb temperature
 (C) Dew point temperature (D) None of the above
- According to Dalton's Law of partial pressures []
 (A) $p_b = p_a - p_v$ (B) $p_b = p_a + p_v$ (C) $p_b = p_a \otimes p_v$ (D) $p_b = p_a / p_v$
 Where p_b = Barometric pressure , p_a = Partial pressure of dry air
 p_v = Partial pressure of water Vapour
- Carnot cycle consists of []
 (A) Two isothermal and two isentropic processes
 (B) Two constant volume and two isentropic processes
 (C) Two constant pressure and two isentropic processes
 (D) All of the above
- For the same compression ratio, the efficiency of Dual combustion cycle is []
 (A) Greater then Diesel cycle and Less then Otto cycle
 (B) Less then Diesel cycle and greater then Otto cycle
 (C) Greater then Diesel cycle
 (D) Less then Otto cycle

9. Bell-Coleman cycle is a []
(A) Reversed Carnot cycle (B) Reversed Otto cycle
(C) Reversed Joule cycle (D) Reversed Rankine cycle
10. In a Vapour compression system, the condition of refrigerant before passing through the condenser []
(A) Saturated liquid (B) wet Vapour (C) Dry saturated Vapour (D) superheated vapour

II Fill in the blanks:

11. The free expansion process is _____ non flow processes.
12. When a perfect gas is expanded through an aperture of minute dimensions, the Process is known as _____ process.
13. The ratio of two specific heats (i.e. $\frac{C_p}{C_v}$) is known as _____ index
14. The wet bulb depression indicates _____ humidity of the air.
15. The horizontal and uniformly spaced lines on a psychometric chart indicates _____.
16. The efficiency of the Carnot cycle depends upon _____
17. Sterling and Ericsson cycles are _____ cycles.
18. The Compression Ratio is the ratio of _____ volume to _____ volume.
19. In air –conditioning of aero planes, using air as a refrigerant ,the cycle used is reversed _____ cycle .
20. The _____ valve in a refrigeration controls the flow of refrigerant.

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18. The free expansion process is _____ non flow processes.
19. When a perfect gas is expanded through an aperture of minute dimensions, the Process is known as _____ process.
20. The ratio of two specific heats (i.e. $\frac{C_p}{C_v}$) is known as _____ index

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Objective Exam

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