

**SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY, SURAT**

**Thermodynamics-I Assignment and Tutorial Quiz**

**IV-Mechanical (2010-2011)**

**Max. Marks: 10**

**Roll No.**

**Division:**

**Instructions:**

**Attempt only 10 Questions (Time Limit: 1/2 Hour)**

**Any mischief behavior will lead to negative marking, strictly.**

1. The efficiency of Carnot Engine run by Petrol is \_\_\_\_\_ the efficiency of Carnot Engine run by Diesel.(greater than, less than, equal to)
2. COP of Refrigerator in terms of COP of Heat Pump is \_\_\_\_\_
3. Specific Volume of gas is extensive or intensive property? \_\_\_\_\_
4. \_\_\_\_\_ steam behaves like a gas(wet, dry saturated, superheated )
5. Latent heat of vaporization at critical point is \_\_\_\_\_
6. Which of the following is not a property of the system? (Temperature, pressure, specific volume, heat) \_\_\_\_\_
7. In SI Units, The value of Universal Gas constant is \_\_\_\_\_
8. Change in entropy is zero during \_\_\_\_\_ process.
9. Heat addition at constant temperature is called \_\_\_\_\_ Heat (Sensible, Latent).
10. Steady Flow Energy Equation is only applicable for \_\_\_\_\_ (Control Volume, Control mass, isolated system)
11. Work done in free expansion process is \_\_\_\_\_
12. In equation for a polytropic process,  $PV^n=C$ , Value of n for constant volume process is \_\_\_\_\_

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13. With \_\_\_\_\_ pressure, boiling point of water increases and enthalpy of evaporation decreases (Increases, Decreases, Constant )

14. Mollier Diagram (Chart) is \_\_\_\_\_ Vs \_\_\_\_\_

15. 1 ton of refrigeration = \_\_\_\_\_ kJ/min.

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