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## 40 TOP Chemical Engineering Thermodynamics Online Test – Multiple Choice Questions and Answers

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Congratulations – you have completed **Chemical Engineering  
Thermodynamics Online Test Se.**

You scored **4** points out of **10** points total.

Your answers are shown below:

1. Enthalpy changes over a constant pressure path are  
always zero for \_\_\_\_\_ gas

- **a perfect**
- an easily liquefiable
- a real
- any

2. Which one is true for a throttling process ?

- **The inversion temperature is different for different gases**
- The inversion temperature is the temperature at which Joule-Thomson co-efficient is infinity
- The inversion temperature is same for all gases
- A gas may have more than one inversion temperatures

3. First law of thermodynamics deals with the

- irreversible processes only
- **reversible processes only**
- direction of energy transfer
- none of these

4. When liquid and vapour phases of one component system are in equilibrium (at a given temperature and pressure), the molar free energy is

- more in liquid phase
- **same in both the phases**
- replaced by chemical potential which is more in vapour phase
- more in vapour phase

5. For spontaneous changes in an isolated system ( $S =$  entropy)

- $ds = 0$
- $ds > 0$
- **$ds < 0$**
- $ds = \text{Constant}$

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6. A solute distributes itself between two non-miscible solvents in contact with each other in such a way that, at a constant temperature, the ratio of its concentrations in two layers is constant, irrespective of its total amount". This is

- **the distribution law**
- a corollary of Henry's law
- followed from Margule's equation
- none of these

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7. The work done in isothermal compression compared to that in adiabatic compression will be

- more
- more or less depending upon the extent of work done
- **same**
- less

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8. One mole of nitrogen at 8 bar and 600 K is contained in a piston-cylinder arrangement. It is brought to 1 bar isothermally against a resisting pressure of 1 bar. The work done (in Joules) by the gas is

- 10373
- **4364.9**
- 4988.4
- 30554

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9. For organic compounds, group contribution method can be used for the estimation of

- critical properties
  - thermal conductivity
  - **specific gravity**
  - specific volume
-

10. A solid is transformed into vapour without going to the liquid phase at

- below triple point
- always
- **boiling point**
- triple point

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