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[Home](#) » [Chemical Engineering Basic Online Test](#) » **40 TOP CHEMICAL Engineering Basic Online Test – Multiple Choice Questions and Answers**

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Congratulations – you have completed **Chemical Engineering Basic Online Test Set 1**.

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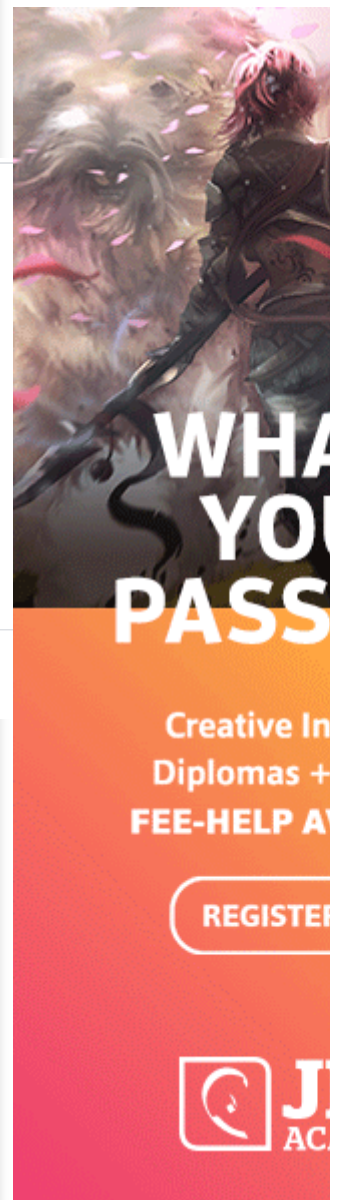
Your answers are shown below:

1. Solubility of a substance which dissolves with an increase in volume and liberation of heat will be favoured by the

- **low pressure and high temperature**
- high pressure and low temperature

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- low pressure and low temperature
- high pressure and high temperature

2. Free energy, fugacity and activity co-efficient are all affected by change in the temperature. The fugacity co-efficient of a gas at constant pressure _____ with the increase of reduced temperature.

- **remains constant**
- increases
- decreases
- decreases logarithmically

3. Heating of water under atmospheric pressure is an _____ process

- isobaric
- **adiabatic**
- isochoric
- isothermal

4. Internal energy change of a system over one complete cycle in a cyclic process is

- dependent on the path
- **-ve**
- +ve
- zero

5. Entropy is a measure of the _____ of a system

- orderly behaviour
- **disorder**
- temperature changes only
- none of these

6. Near their critical temperatures, all gases occupy volumes _____ that of the ideal gas

- less than
- same as
- **half**
- more than

7. The free energy change for a chemical reaction is given by (where, K = equilibrium constant)

- $RT \ln K$
- $T \ln K$
- **$-RT \ln K$**
- $-R \ln K$

8. Work done is a

- property of the system
- path function
- **point function**
- state description of a system

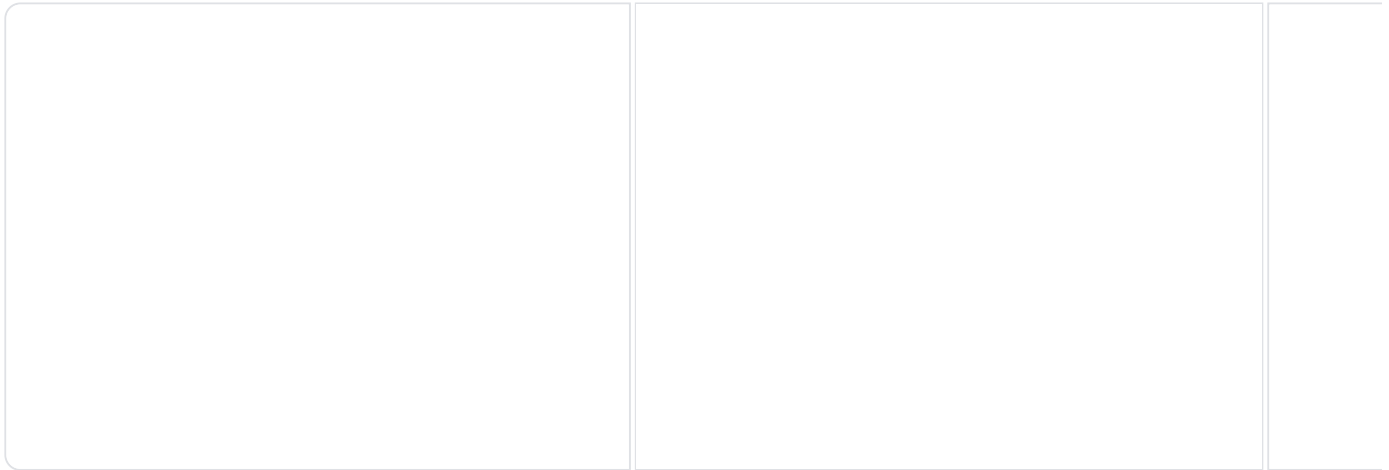
9. For a spontaneous process, free energy

- increases
- and entropy both decrease
- decreases whereas the entropy increases
- **is zero**

10. What is the number of degrees of freedom for liquid water in equilibrium with a mixture of nitrogen and water vapor ?

- **1**
- 2
- 3

• 4



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