

Quiz 1

Total points 8/10

Please submit the Quiz 1 before 6:15 PM (19-January 2020)

The respondent's email (**choudhary.21@iitj.ac.in**) was recorded on submission of this form.

✓ An extension of rubber is *

1/1

- ☐ Irreversible process
- ☒ Reversible process
- ☐ Adiabatic process
- ☐ Reversible adiabatic process



✓ A System is said to be in state of Mechanical and Chemical Equilibrium, then It is said to be thermodynamic Equilibrium *

1/1

- ☐ Yes
- ☒ No



✓ Molar entropy is *

1/1

- ☐ An extensive property
- ☒ An intensive property
- ☐ A path property
- ☐ A reference property



✗ Whenever a system undergoes a process, the energy in transit is defined as * 0/1

- ☐ Work
- ☒ Heat
- ☐ None of these
- ☐ Process

✗

Correct answer

- ☒ Work

✓ A 9-m³ rigid tank contains nitrogen gas at 600 kPa and 300 K. Now heat is transferred to the nitrogen in the tank and the pressure of nitrogen rises to 900 kPa. The work done during this process is * 1/1

- ☐ 1500 kJ
- ☒ 0 kJ
- ☐ 500 kJ
- ☐ 900 kJ

✓



✓ In Isobaric process *

1/1

- ☐ Chemical potential remain constant
- ☐ Temperature remain constant
- ☐ Volume remain constant
- ☒ Pressure remain constant



✗ A solid ball will retains its original state subject to very small disturbances 0/1
is called *

- ☒ Stable equilibrium
- ☐ Unstable Equilibrium
- ☐ Meta stable equilibrium
- ☐ Neutral equilibrium



Correct answer

- ☒ Meta stable equilibrium

✓ Entropy is *

1/1

- ☐ A path property
- ☐ An intensive property
- ☒ An extensive property
- ☐ A reference property



✓ Density is a *

1/1

- ☐ Path function
- ☒ Point function
- ☐ Neither path nor point function
- ☐ Cyclic function



✓ A solid ball will not retains its original state subject to very small disturbances is called *

1/1

- ☐ Neutral equilibrium
- ☒ Unstable equilibrium
- ☐ Stable equilibrium
- ☐ All of these



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