Quiz 1

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In Isochoric process *   1 point

○ Temperature remain constant

○ Pressure remain constant

○ Chemical potential remain constant

◉ Volume remain constant

The property is not a *   1 point

○ Neither path nor point function

○ Point function

○ All of these

◉ Path function

"Stainless Steel Insulated Bottle" is an example of *   1 point

○ Rigid boundary

◉ Both Rigid and adiabatic boundary

○ Adiabatic boundary

○ Movable boundary

Thermodynamics widely used by civil engineers for the purpose of *   1 point

○ Waste water treatment processes

○ Building central HVAC systems

○ Smart buildings

◉ All of these

Cryogenic chip is used in quantum computers for the purpose of *   1 point

○ Reducing the speed

◉ Cooling down

○ For Increasing the temperature

○ Increasing the volume

A solid ball retains its original state subject to disturbances is called *   1 point

○ Neutral equilibrium

○ All of these

○ Unstable equilibrium

◉ Stable equilibrium

Fahrenheit scale is defined as: *   1 point

◉ T (degree F) = 1.8 T (degree C) + 32

◯ T (degree F) = 1.6 T (degree C) + 32

◯ T (degree F) = 1.8 T (degree C) - 32

◯ T (degree F) = 1.8 T (degree K) - 32

If the applied pressure is less than the atmospheric pressure, then it is   1 point
called as *

◯ Gauge pressure

◯ Vacuum pressure

◯ Differential pressure

◉ None of these

Carbon dioxide contained in a piston-cylinder device is compressed from   1 point
0.3 to 0.1 m^3. During the process, the pressure and volume are related by
P = aV^(-2), where a = 8 kPa-m^(6). Calculate the work done on the carbon
dioxide during this process. *

◯ -53 kJ

◯ -69 kJ

◯ 40 kJ

◯ -80 kJ

The mixture of water vapor and liquid water that is in equilibrium is called as *

1 point

○ Triple point

○ None of these

○ Ice point

● Steam point

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