

If a sufficiently large number of individual interactions are involved, then the direction will always be in the direction of

b

Select the correct option



constant



zero



decreased



increased

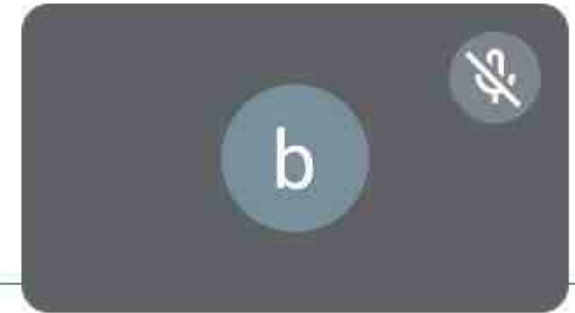
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An isolated system is in equilibrium when its macroscopic properties remain constant with?



Select the correct option



time



volume



distance



temperature

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Question # 10 of 10 (Start time: 03:57:01 PM, 28 December 2021)

Heat Capacity is a measure of the ability of the substance to_____ heat.

b

Select the correct option



absorb



restore



none of these



release

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Question # 8 of 10 (Start time: 03:56:16 PM, 28 December 2021)

An _____ thermodynamic property is one whose value is equal to the sum of its values for the parts of the system.

b

Select the correct option



intensive



chemical



physical



extensive

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Click to Save Answer



Question # 6 of 10 (Start time: 03:55:45 PM, 28 December 2021)

Thermodynamics studies the relationships between the _____ of a system



Select the correct option



macroscopic properties



initial and final volume



initial and final temperature



microscopic properties

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Question # 3 of 10 (Start time: 03:54:47 PM, 28 December 2021)

For a system in mechanical equilibrium, the pressure throughout the system is uniform and equal to the pressure of



Select the correct option

☐	reactants
☐	system
☐	product
☐	surroundings

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Question # 2 of 10 (Start time: 03:53:45 PM, 28 December 2021)

Measurement of change of heat is known as_____?



Select the correct option



spectrometry



spectroscopy



calorimetry



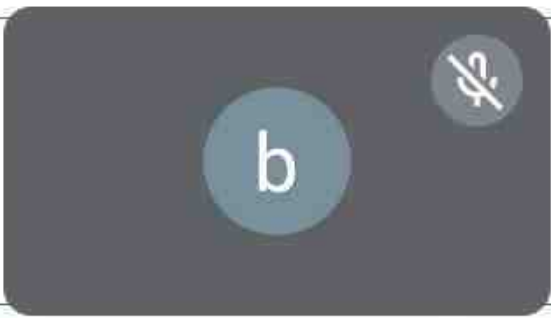
thermometry

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Question # 10 of 10 (Start time: 03:51:42 PM, 28 December 2021)

The decay of diamonds into graphite is a?



Select the correct option

- | | |
|----------------------------------|-------------------------|
| ☐ | instant |
| ☒ | spontaneous process |
| ☐ | non spontaneous process |
| ☐ | reversible |

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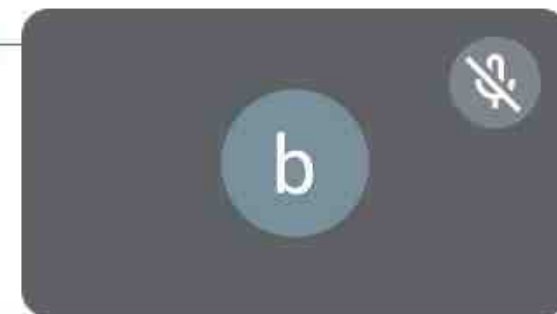




Total

Question # 8 of 10 (Start time: 03:50:52 PM, 28 December 2021)

when _____ established, No net chemical reactions are occurring in the system



Select the correct option

- | | |
|----------------------------------|------------------------|
| ☐ | Mechanical Equilibrium |
| ☐ | Thermal Equilibrium |
| ☐ | No Equilibrium |
| ☒ | Material Equilibrium |

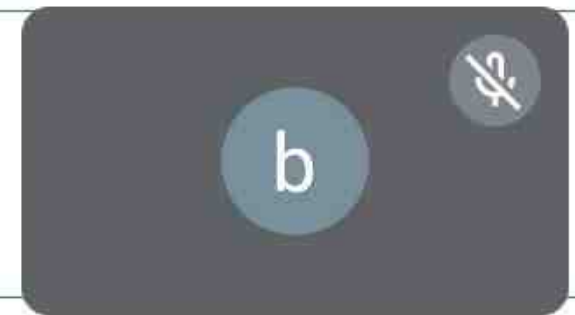
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Question # 7 of 10 (Start time: 03:50:42 PM, 28 December 2021)

total entropy of an system can only increase over time



Select the correct option

- | | |
|----------------------------------|-----------|
| ☒ | isolated |
| ☐ | close |
| ☐ | open |
| ☐ | adiabatic |

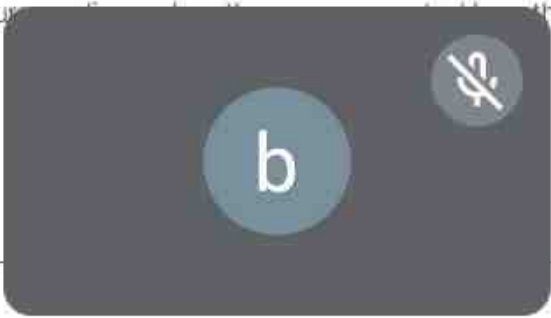
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Click to Save Answer & Mark as Correct



Question # 6 of 10 (Start time: 03:49:40 PM, 28 December 2021)

Thermal Equilibrium between a system and its surroundings, there must be no change in the _____ of the system or surroundings when it is in thermal contact with a conducting wall.



Select the correct option

- | | |
|----------------------------------|----------------|
| ☐ | state function |
| ☒ | properties |
| ☐ | state |
| ☐ | temperature |

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Question # 1 of 10 (Start time: 03:47:27 PM, 20 December 2021)

_____ has considerable inter-molecular interactions.

b

Select the correct option

- | | |
|----------------------------------|---------------|
| ☐ | Real gas |
| ☐ | All gases |
| ☒ | Ideal gas |
| ☐ | None of these |

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Click to Save Answer & Move to Next Question

Question # 3 of 10 (Start time: 03:48:25 PM, 28 December 2021)

The _____ is an important tool for measuring the heat capacities of liquids and solids

b

Select the correct option



bomb calorimeter



ice calorimeter



none of these



simple calorimeter

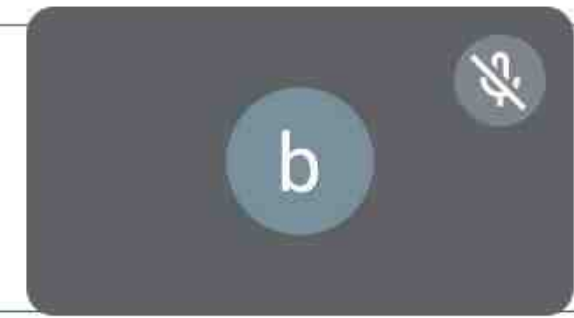
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Question # 4 of 10 (Start time: 03:48:36 PM, 28 December 2021)

The "effective concentration", known as ?



Select the correct option

☐ molar concentration

☐ fugicity

☒ activity

☐ active concentration

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Question # 10 of 10 (Start time: 03:46:44 PM, 28 December 2021)

The amount of heat needed to increase the temperature of one gram of a substance by one degree is the_____?

b

Select the correct option

- ☒ specific heat capacity.
- ☐ specific latent heat capacity.
- ☐ heat capacity.
- ☐ molar heat capacity.

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The macroscopic part of the universe under study in thermodynamics is called?

b

Select the correct option

☐	surroundings
☒	system
☐	state variable
☐	state function

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Question # 8 of 10 (Start time: 03:46:02 PM, 28 December 2021)

total entropy of an system can only increase over time

Select the correct option

- ☒ isolated
- ☐ open
- ☐ adiabatic
- ☐ close

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Question # 7 of 10 (Start time: 03:45:19 PM, 28 December 2021)

_____ system is in equilibrium when its macroscopic properties remain constant with time

b

Select the correct option

- ☒ An isolated
- ☐ A closed
- ☐ An adiabatic
- ☐ An open

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Question # 6 of 10 (Start time: 03:44:37 PM, 28 December 2021)

The standard _____ of a compound is defined as the heat associated with the formation of one mole of the compound from its

b

Select the correct option

none of these

enthalpy of formation

Gibbs free energy

entropy of formation

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BC200414869: KHOWLA

CHE201 - Physical Chemistry (Quiz#1)

Question # 5 of 10 (Start time: 03:44:15 PM, 28 December 2021)

Diffusion is an example of?

- Select the correct option
- ☐ equilibrium
 - ☐ spontaneous
 - ☐ reversible process



Question # 10 of 10 (Start time: 03:41:14 PM, 28 December 2021)

_____deals with non-equilibrium systems:



Select the correct option



Reversible Thermodynamics



Constant Reactions



Irreversible Thermodynamics



Non-spontaneous reactions

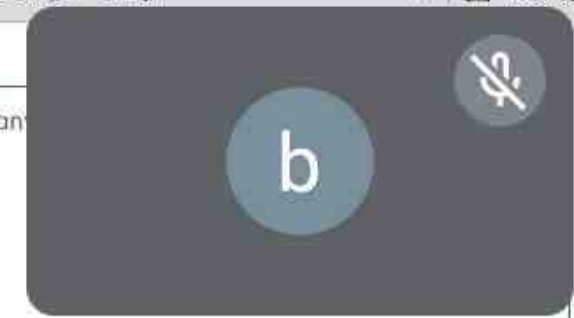
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Question # 1 of 10 (Start time: 03:43:11 PM, 28 December 2021)

_____ states that The enthalpy of a given chemical reaction is constant, regardless of the reaction happening in one step or many steps.



Select the correct option

- | | |
|----------------------------------|---------------------|
| ☐ | Rouult's law |
| ☐ | Charles's law |
| ☐ | Van't Hoff equation |
| ☒ | Hess's law |

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Click to Save Answer & Move to Next Question



Question # 9 of 10 (Start time: 03:40:37 PM, 28 December 2021)

The number of ^{12}C atoms in exactly 12 g of ^{12}C is called _____.



Select the correct option



Relative molecular mass



Atomic mass



Molecular weight



Avogadro's number

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Gas becomes ideal in the _____ -density limit.

b

Select the correct option



affinity



maximum



constant



zero

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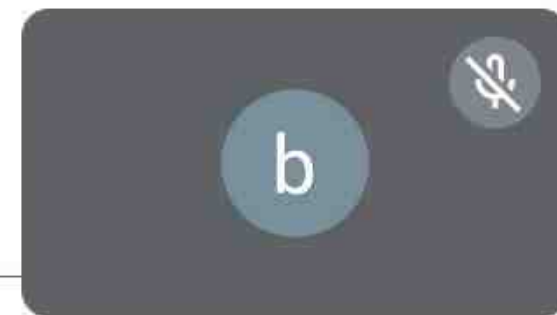
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Question # 7 of 10 (Start time: 03:39:15 PM, 28 December 2021)

Entropy of a perfect crystalline substance is _____ at absolute zero.



Select the correct option

☐	increases
☐	constant
☒	zero
☐	decreases

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Question # 6 of 10 (Start time: 03:38:44 PM, 28 December 2021)

Entropy of the universe _____ in a spontaneous process.

b

Select the correct option



become zero



decreases



increases

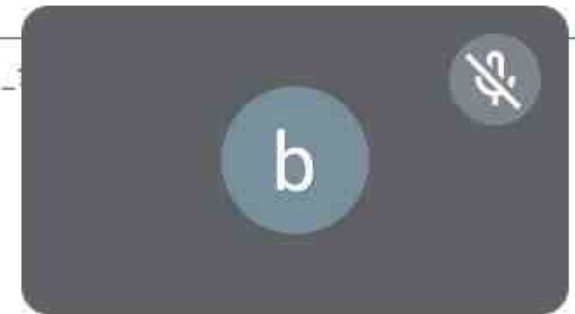


become constant



Question # 5 of 10 (Start time: 03:38:07 PM, 28 December 2021)

The amount of heat needed to increase the temperature of one gram of a substance by one degree is the _____



Select the correct option

- | | |
|----------------------------------|--------------------------------|
| ☐ | molar heat capacity. |
| ☒ | specific heat capacity. |
| ☐ | heat capacity. |
| ☐ | specific latent heat capacity. |

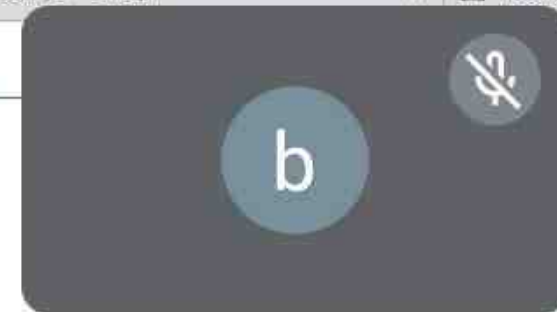
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Question # 4 of 10 (Start time: 03:37:23 PM, 28 December 2021)

The microscopic viewpoint is based on the concept of ____?



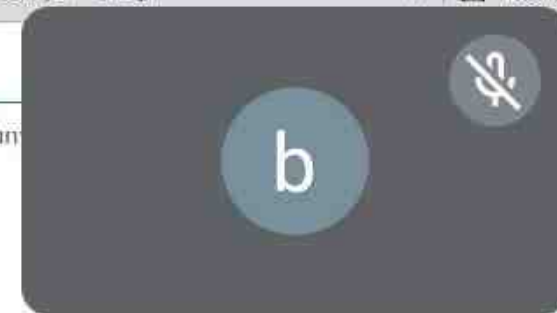
Select the correct option

- | | |
|----------------------------------|---------------------|
| ☐ | atom |
| ☐ | physical properties |
| ☐ | electron |
| ☒ | molecule |

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Question # 3 of 10 (Start time: 03:36:37 PM, 28 December 2021)

_____ states that The enthalpy of a given chemical reaction is constant, regardless of the reaction happening in one step or many steps.



Select the correct option

- | | |
|----------------------------------|---------------------|
| ☐ | Raoult's law |
| ☐ | Van't Hoff equation |
| ☐ | Charles's law |
| ☒ | Hess's law |

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Question # 1 of 10 (Start time: 03:35:28 PM, 28 December 2021)

A "state function" is a value that is a function only of the initial and final states of the system, not the _____.

Select the correct option

- ☒ path
- ☐ activation energy
- ☐ catalyst
- ☐ none of these

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Click to Save Answer & Move to Next Question

An irreversible process is one in which heat is _____.

b

Select the correct option



not transferred



gained



transferred

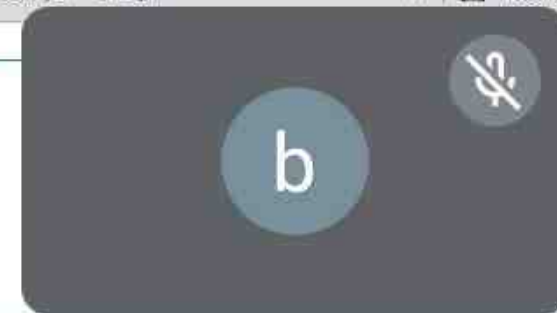


conserved

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Question 9 of 10 (Start time: 03:33:30 PM, 26 December 2021)
_____ thermodynamic property is one whose value does not depend on the size of the system



Select the correct option

- | | |
|----------------------------------|--------------|
| ☐ | Extensive |
| ☒ | Intensive |
| ☐ | Mathematical |
| ☐ | Specific |

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Click to Save Answer & Move to Next Question



Question # 8 of 10 (Start time: 03:32:03 PM, 28 December 2021)

_____ has considerable inter-molecular interactions.

b

Select the correct option

- | | |
|----------------------------------|---------------|
| ☐ | Real gas |
| ☒ | Ideal gas |
| ☐ | None of these |
| ☐ | All gases |

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Question # 7 of 10 (Start time: 03:31:29 PM, 28 December 2021)

Intensive thermodynamic property is one whose value does not depend on the _____ of the system

b

Select the correct option

- | | |
|----------------------------------|----------------|
| ☒ | size |
| ☐ | state function |
| ☐ | initial state |
| ☐ | temperature |

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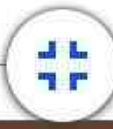
Question # 6 of 10 (Start time: 03:30:49 PM, 28 December 2021)

Calorimetry is



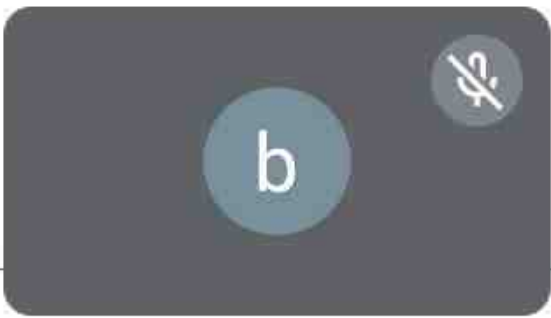
Select the correct option

- ☐ measurement of change in pressure
- ☐ measurement of change in volume
- ☒ measurement of change in heat/temperature
- ☐ measurement of change in color



Question # 4 of 10 (Start time: 03:29:42 PM, 28 December 2021)

The volume occupied by 1 mole of a gas under critical conditions is called the_____?



Select the correct option

- | | |
|----------------------------------|----------------------|
| ☒ | Critical Volume |
| ☐ | Vander Waal Volume |
| ☐ | Constant Volume |
| ☐ | Vander Waal Equation |

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Question # 1 of 10 (Start time: 03:28:08 PM, 28 December 2021)

Heat capacity _____ with increasing pressure.

b

Select the correct option

☒	decreases
☐	approaches to zero
☐	increases
☐	remain constant

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The standard enthalpy of formation of gaseous atoms from the element is known as the heat of _____?

b

Select the correct option

- | | |
|----------------------------------|----------------------|
| ☐ | standard free energy |
| ☐ | Gibbs free energy |
| ☐ | formation |
| ☒ | atomization |

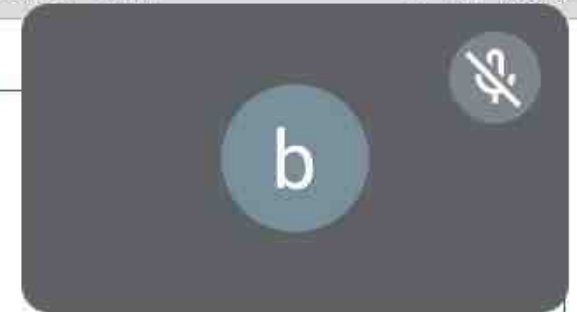
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Question # 8 of 10 (Start time: 03:22:56 PM, 28 December 2021)

_____ law states that the volume of a fixed amount of gas, as constant pressure, is proportional to the absolute temperature.



Select the correct option

- | | |
|----------------------------------|----------------|
| ☒ | Charles'law |
| ☐ | none of these |
| ☐ | Boyle's |
| ☐ | Avogadro's law |

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Question # 7 of 10 (Start time: 03:21:53 PM, 20 December 2021)

The amount of heat needed to increase the temperature of one mole of a substance by one degree is

Select the correct option

- | | |
|----------------------------------|------------------------|
| ☐ | Gibbs free energy |
| ☐ | Heat Capacity |
| ☒ | Molar Heat Capacity |
| ☐ | Specific Heat Capacity |

Windows taskbar with search bar: Type here to search

Taskbar icons: File Explorer, Microsoft Edge, etc.

Mobile interface overlay with a microphone icon and a button labeled 'b'.

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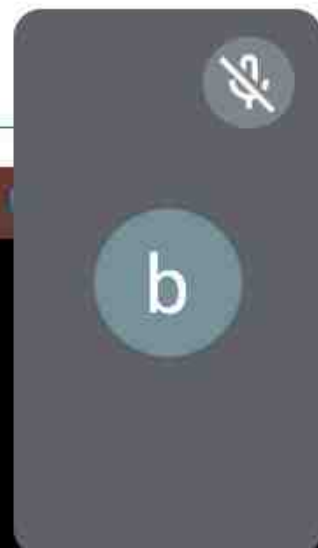
Question # 6 of 10 (Start time: 03:21:07 PM, 28 December 2021)

Entropy means _____?

Select the correct option

- | | |
|----------------------------------|----------------|
| ☐ | collision |
| ☐ | state function |
| ☒ | disorder |
| ☐ | heat contents |

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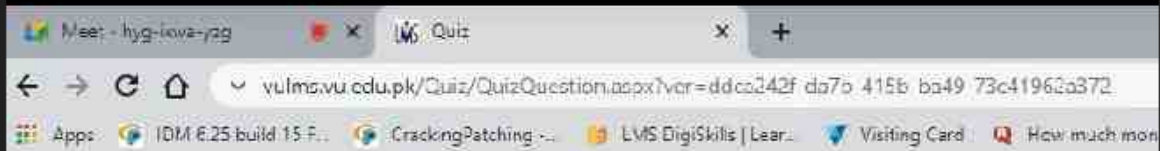


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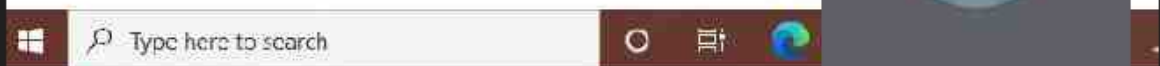


Question # 5 of 10 (Start time: 03:20:30 PM, 28 December 2021)

If _____ then the system is already at equilibrium

Select the correct option

- | | |
|----------------------------------|---------------|
| ☒ | $Q = K_c$ |
| ☐ | none of these |
| ☐ | $Q > K_c$ |
| ☐ | $Q < K_c$ |



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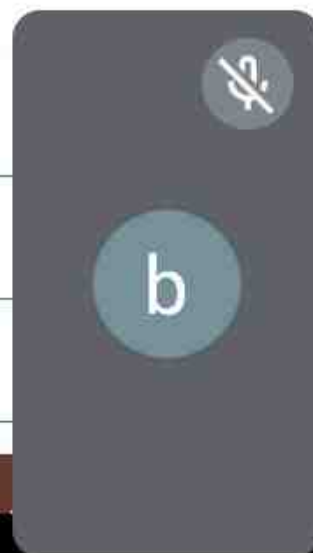
Question # 4 of 10 (Start time: 03:20:03 PM, 28 December 2021)

_____ is one where transfer of matter between system and surroundings can occur

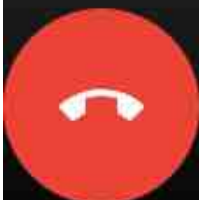
Select the correct option

- ☒ Open system
- ☐ adiabatic system
- ☐ Isolated system
- ☐ close system

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Question # 3 of 10 (Start time: 03:19:30 PM, 28 December 2021)

Gas becomes ideal in the _____-density limit.

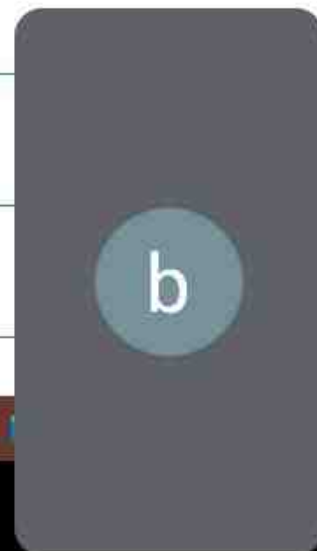
Select the correct option

☐ constant

☒ zero

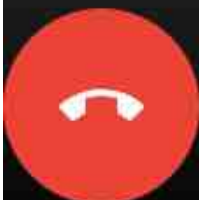
☐ affinity

☐ maximum



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Question # 10 of 10 (Start time: 03:16:34 PM, 28 December 2021)

Diffusion is an example of?

Select the correct option

☐	reversible process
☒	irreversible process
☐	spontaneous
☐	equilibrium

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b





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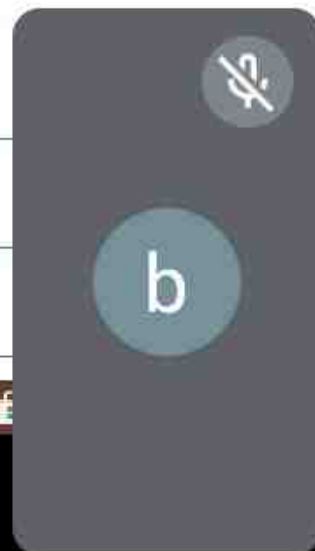
Question # 9 of 10 (Start time: 03:15:30 PM, 28 December 2021)

The standard _____ of a compound is defined as the heat associated with the formation of one mole of the compound from its elements in their standard states.

Select the correct option

☐	entropy of formation
☒	enthalpy of formation
☐	none of these
☐	Gibbs free energy

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Question # 8 of 10 (Start time: 03:14:30 PM, 28 December 2021)

The rate of a reaction is independent of its?

Select the correct option

- | | |
|----------------------------------|-------------------|
| ☐ | final state |
| ☐ | chemical kinetics |
| ☐ | mechanism |
| ☒ | spontaneity |



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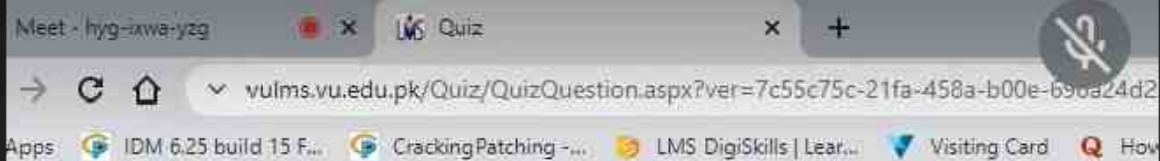


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Question # 7 of 10 (Start time: 03:13:27 PM, 28 December 2021)

The _____ is an important tool for measuring the heat capacities of liquids and solids

Select the correct option

☐ simple calorimeter

☐ bomb calorimeter

☐ none of these

☒ ice calorimeter

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Question # 6 of 10 (Start time: 03:12:04 PM, 26 December 2021)

Thermodynamics studies the relationships between the _____ of a system

Select the correct option

- | | |
|----------------------------------|-------------------------------|
| ☐ | microscopic properties |
| ☐ | initial and final temperature |
| ☐ | initial and final volume |
| ☒ | macroscopic properties |

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Question # 5 of 10 (Start time: 03:11:54 PM, 28 December 2021)

_____ is one where no transfer of matter can occur between system and surrounding

Select the correct option

- | | |
|----------------------------------|------------------|
| ☐ | adiabatic system |
| ☐ | isolated system |
| ☒ | closed system |
| ☐ | open system |

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Question # 4 of 10 (Start time: 03.10.27 PM, 20 December 2021)

An irreversible process is one in which heat is

Select the correct option

- | | |
|----------------------------------|-----------------|
| ☐ | conserved |
| ☐ | gained |
| ☒ | transferred |
| ☐ | not transferred |



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Question # 3 of 10 (Start time: 03:05:45 PM, 28 December 2021)

_____ explains the behavior of solids at very low temperature.

Select the correct option

- | | |
|----------------------------------|------------|
| ☐ | Second law |
| ☒ | Third law |
| ☐ | zeroth law |
| ☐ | First law |

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Quiz

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Question # 2 of 10 (Start time: 03:09:08 PM, 28 December 2021)

A _____ of some substance is defined as an amount of that substance which contains Avogadro's number of ele

Select the correct option

☐	particle
☒	mole
☐	atom
☐	molecule

type here to search

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hyg-ixwa-yzg



Meet - hyg-ixwa-yzg

Quiz

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Question # 1 of 10 (Start time: 03:08:07 PM, 28 December 2021)

Entropy of the universe _____ in a spontaneous process.

Select the correct option

☐	decreases
☐	become zero
☒	increases
☐	become constant

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