

eExam Question Bank

Coursecode:

Choose Coursecode

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<input type="checkbox"/>	Question Type	Question	A	B	C	D	Answer	Remark
<input type="checkbox"/>	FBQ	The <input type="text"/> law of thermodynamics discusses entropy.	second	2nd				<input type="button" value="eExam"/>
<input type="checkbox"/>	FBQ	The conjugate acid of H_2O is H_3O^+ . <input type="text"/> (True or False)?	1	1				<input type="button" value="eExam"/>
<input type="checkbox"/>	FBQ	The <input type="text"/> scale of temperature has absolute zero for its zero point	Kelvin	Kelvin				<input type="button" value="eExam"/>
<input type="checkbox"/>	FBQ	<input type="text"/> is the amount of heat required to melt one gram of substance at its melting point.	latent heat of fusion	latent heat				<input type="button" value="eExam"/>
<input type="checkbox"/>	FBQ	The pH of an aqueous solution which is 0.0020 M $HClO_4$ is <input type="text"/>	2.7	2.7				<input type="button" value="eExam"/>
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<input type="checkbox"/>	FBQ	For any process, the change in entropy of the universe equals the sum of entropy changes to the system and the <input type="text"/> surroundings.	surroundings	surrounding, environment				eExam

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<input type="checkbox"/>	MCQ	A beaker with a mixture of ice and water is maintained at equilibrium: $\text{H}_2\text{O}(s) + \text{heat} \rightleftharpoons \text{H}_2\text{O}(l)$; If the temperature of the system is decreased:	Water freezes to form ice (shifts to the left)	Ice melts to form liquid water (shift to the right)	The container cacks	No change occurs	B	eExam
<input type="checkbox"/>	MCQ	When extra NH_3 is added to the following system at equilibrium: $3\text{H}_2(g) + \text{N}_2(g) \rightleftharpoons 2\text{NH}_3(g)$, what happens?	In order to restore equilibrium, the reaction shifts left, toward reactants	In order to restore equilibrium, the reaction shifts right, toward product	No change occurs	Concentration of hydrogen decreases, but that of hydrogen increases	A	eExam
<input type="checkbox"/>	MCQ	The reaction below is exothermic: $2\text{SO}_2(g) + \text{O}_2(g) \rightleftharpoons 2\text{SO}_3(g)$. Le Chatelier's Principle predicts that _____ will result in an increase in the number of moles of $\text{SO}_3(g)$ in the reaction container.	removing some oxygen	decreasing the pressure	increasing the pressure	increasing the volume of the container	C	eExam

<input type="checkbox"/>								
<input type="checkbox"/>	MCQ	Equilibrium is a state of dynamic molecular behaviour, meaning that	the reaction eventually comes to a stop.	products continually turn into reactants at a progressively faster rate.	reactants turn into products and products turn into reactants at different rates.	reactants turn into products and products turn into reactants at equal rates	D	eExam
<input type="checkbox"/>	MCQ	In general, the rate of a reaction can be increased by all the factors except	Increasing the activation energy	Increasing the temperature	Increasing the concentration of reactants	Using a catalyst	A	eExam
<input type="checkbox"/>	MCQ	The factor that affects the rate of reaction is	Temperature of the reactants	Nature and concentration of the reactants	Catalyst	All of these	D	eExam
<input type="checkbox"/>	MCQ	Rate of reaction is defined as the	Rate of change of conc. of product only	Rate of change of conc. of reactant only	Rate of change of concentration Of either reactant or product per unit time	None of the above	C	eExam
<input type="checkbox"/>	MCQ	The term $-dx/dt$ in a rate expression refers to the	instantaneous rate of the reaction	Average rate of the reaction	increase in concentration of the reactants	Change in concentration of the reactants with time	D	eExam
<input type="checkbox"/>	MCQ	Powdered marble reacts more rapidly with HCl than the chips of marble because:	Surface area of powdered marble is more than that of chips of marble and hence there are more collisions between the molecules of reactants	Number of molecules increases.	Energy of activation decreases	Marble chips will not react with HCl	A	eExam
<input type="checkbox"/>	MCQ	Rusting of iron is an example of _____ reaction	Slow	Fast	Moderate	explosive	A	eExam
<input type="checkbox"/>	MCQ	In a reaction: $2A \rightarrow B + 2C$, which of the statements is true?	Rate of formation of B = Rate of disappearance of A	Rate of formation of C = Rate of formation of B	Rate of disappearance of A = Rate of formation of C	Rate of disappearance of A = Rate of formation of B	C	eExam
<input type="checkbox"/>	MCQ	The reactions with the high value of energy of activation are	Fast	Slow	Moderate	Not feasible	B	eExam
<input type="checkbox"/>	MCQ	For a reaction: $2H_2 + 2NO \rightarrow 2H_2O + N_2$ the rate law is $R = k[H_2][NO]^2$ The Order of the reaction is	0	3	2	1	B	eExam

<input type="checkbox"/>	MCQ	Milk sours more rapidly in summer than in winter because	in summer, the temperature is high due to which effective collisions increase and hence the rate of reaction becomes fast	in winter, number of molecules per unit volume increases and hence the rate of reaction becomes fast	in summer, the energy of activation decreases and hence the rate of reaction becomes fast	none of the above	A	eExam
<input type="checkbox"/>	MCQ	Which of the following statements about the kinetics of the reaction $\text{H}_2(\text{g}) + \text{Br}_2(\text{g}) \rightarrow 2\text{HBr}(\text{g})$ is definitely true?	The reaction is first order with respect to bromine, Br_2 .	The reaction is second order overall.	The presence of hydrogen bromide, HBr, inhibits the rate of the reaction	It is not possible to determine anything about the kinetics of the reaction from the stoichiometry.	D	eExam
<input type="checkbox"/>	MCQ	Calculate the ΔH value of the reaction: $\text{HCl} + \text{NH}_3 \rightarrow \text{NH}_4\text{Cl}$ ΔH° values for HCl, NH_3 and NH_4Cl are -92.30, -80.29 and -314.4 respectively	141.8	252.88	-486.99	-141.8	D	eExam
<input type="checkbox"/>	MCQ	Which of the following statements about enthalpy is incorrect?	Enthalpy and internal energy of a system are always identical	enthalpy is a state function	ΔH is the enthalpy change at constant pressure	Reactions which absorb heat have a positive ΔH	A	eExam
<input type="checkbox"/>	MCQ	Which of these followings would lead to an increase in the internal energy of a system?	Work done on the system	Work done by the system	Loss of heat from the system	Adiabatic expansion of the system	A	eExam
<input type="checkbox"/>	MCQ	One mole of an ideal gas is heated at a constant pressure of 101300 N m^{-2} , from 273.2 K to 373 K. Calculate the work involved $R = 8.314 \text{ J/mol/K}$.	8.314 J/mol	83.14 J/mol	831.4 J/mol	8314 J/mol	C	eExam
<input type="checkbox"/>	MCQ	If a gas absorbs 1000 J of heat and expands by 0.5 dm^3 against a constant pressure of 4 atm (1 atm = 100000 Pa), then the change in internal energy is approximately	-800 J	800 J	1200 J	-1200 J	B	eExam
<input type="checkbox"/>	MCQ	Which of the following expressions is associated with the law of conservation of energy?	$dG = dH - TdS$	$q = mCdT$	$dE = q + w$	$H = E + PV$	C	eExam
<input type="checkbox"/>	MCQ	The first law of thermodynamics deals with	conservation of energy	thermodynamic equivalence	entropy	absolute zero temperature.	A	eExam

<input type="checkbox"/>	MCQ	The molar heat capacity of Al is 24.4 J/mol/°C. How much heat energy is required to heat 100 g of Al from 20 °C to 80 °C? (Al = 27)	146000 J	30000 J	813000 J	5422 J	D	eExam
<input type="checkbox"/>	MCQ	Which of these is true of an isochoric system?	Takes place at constant temperature	Heat is allowed into the system but not allowed out of the system	Volume remains constant	Pressure is not constant	C	eExam
<input type="checkbox"/>	MCQ	Which of the following is not a state function?	enthalpy	entropy	work	free energy	C	eExam
<input type="checkbox"/>	MCQ	The minimum additional energy, above the average internal energy, which the reacting molecules must possess so that their collision result in a reaction is known as	Kinetic energy	Threshold energy	Activation energy	Thermodynamic energy	C	eExam
<input type="checkbox"/>	MCQ	Which of these is not an extensive property of a system?	Density	Mass	Volume	Energy	A	eExam
<input type="checkbox"/>	MCQ	Which of the following statements is correct?	Temperature is an extensive property while heat is an intensive property	temperature is an intensive property while heat is an extensive property	both temperature and heat are intensive properties	both temperature and heat are extensive properties.	B	eExam
<input type="checkbox"/>	MCQ	Which of the following statements describes an isolated system?	No exchange of matter and energy with the surrounding is possible	only exchange of matter with the surrounding is possible	only exchange of energy with the surrounding is possible	exchange of both matter and energy with the surrounding is possible	A	eExam
<input type="checkbox"/>	MCQ	Which of the followings is not a type of system?	Closed	Open	Intensive	Isolated	C	eExam

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