

eExam Question Bank

Coursecode:

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<input type="checkbox"/>	Question Type	Question	A	B	C	D	Answer	Remark
<input type="checkbox"/>	FBQ	An oscillation is said to be <input type="text"/> if its amplitude of the oscillation gradually decreases to zero over time as a result of resistive force arising from the surrounding medium	damped	damped				<input type="button" value="eExam"/>
<input type="checkbox"/>	FBQ	During simple harmonic motion of an object, there is a constant interchange of <input type="text"/> of the object between its kinetic and potential forms	energy	energy				<input type="button" value="eExam"/>
<input type="checkbox"/>	FBQ	If the displacement from its equilibrium position of a particle undergoing simple harmonic motion is very small, the <input type="text"/> force obeys Hooke's law	restoring	restoring				<input type="button" value="eExam"/>
<input type="checkbox"/>	FBQ	The displacement, velocity and acceleration of a particle undergoing a simple harmonic motion could be represented by a <input type="text"/> function	sinusoidal	sinusoidal				<input type="button" value="eExam"/>
<input type="checkbox"/>	FBQ	A simple harmonic motion is a periodic vibration of a body whose acceleration is directly proportional to its <input type="text"/> from a fixed point and is always directed towards this point i.e. $a = -\text{constant } x$	distance	displacement				<input type="button" value="eExam"/>
<input type="checkbox"/>	FBQ	<input type="text"/> force is required for a simple harmonic motion to continue	restoring	restoring				<input type="button" value="eExam"/>

<input type="checkbox"/>								
<input type="checkbox"/>	FBQ	A joule is a unit of <input type="text"/>	Work	energy				eExam
<input type="checkbox"/>	FBQ	1 horse power is equal to <input type="text"/> W	746	746				eExam
<input type="checkbox"/>	FBQ	A physical quantity which has the same dimensions as moment of a force is <input type="text"/>	work	work				eExam
<input type="checkbox"/>	FBQ	<input type="text"/> is done when a force moves its point of application along the direction of its line of action	Work	Work				eExam
<input type="checkbox"/>	FBQ	The coefficient of <input type="text"/> is the maximum limiting force just before a body starts sliding over another surface	friction	friction				eExam
<input type="checkbox"/>	FBQ	The force which opposes the relative motion of two surfaces in contact is called <input type="text"/>	friction	friction				eExam
<input type="checkbox"/>	FBQ	There are <input type="text"/> fundamental forces in nature	four	4				eExam
<input type="checkbox"/>	FBQ	The velocity at which an object thrown into space will move completely free of the earth's gravitational field is called <input type="text"/> velocity	escape	escape				eExam
<input type="checkbox"/>	FBQ	A <input type="text"/> orbit is the orbit of a satellite whose period of revolution is approximately equal to the period of rotation of the earth about its axis which is 24 hours	parking	parking				eExam
<input type="checkbox"/>	FBQ	In a perfectly elastic collision, momentum and <input type="text"/> are conserved	kinetic energy	kinetic energy				eExam
<input type="checkbox"/>	FBQ	<input type="text"/> is a force which acts for only a very short duration of time	Impulse	Impulse				eExam

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<input type="checkbox"/>	FBQ	The quantity ,force times time, re[resents <input type="text"/>	impulse	impulse					eExam
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<input type="checkbox"/>	FBQ	The <input type="text"/> is common to the vertical and horizontal components of the projectile motion	time of flight	time of flight					eExam
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<input type="checkbox"/>	FBQ	Netwton's <input type="text"/> law of motion is also known as the law of inertia	first	first					eExam
<input type="checkbox"/>	FBQ	Newton's <input type="text"/> of motion explains the principle of operation of jet and rocket engines.	third	third					eExam
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<input type="checkbox"/>	FBQ	Work and moment of a force have the same <input type="text"/>	dimension	dimensions					eExam

<input type="checkbox"/>									
<input type="checkbox"/>	FBQ	The <input type="text"/> of a physical quantity is the relationship between the unit of the quantity and the units of the fundamental quantities	dimension	dimension					eExam
<input type="checkbox"/>	FBQ	Quantities units which are obtained by a combination of the basic or fundamental quantities are called <input type="text"/> quantities	derived	derived					eExam
<input type="checkbox"/>	FBQ	All motions are <input type="text"/> and not absolute	relative	relative					eExam
<input type="checkbox"/>	FBQ	A <input type="text"/> of reference is a set of coordinate axes used to describe the motion of an object.	frame	frame					eExam
<input type="checkbox"/>	FBQ	The kinetic energy per degree of freedom of a molecule of a monoatomic gas can be given in terms of k and T where the symbols have their usual meaning, as $KE =$ <input type="text"/> . You may choose your answer from the list: ($3kT/2$, $kT/3$, $kT/2$, kT)	$kT/2$	$kT/2$					eExam
<input type="checkbox"/>	FBQ	<input type="text"/> distribution is concerned with the distribution of molecular speeds of a given closed system at a particular temperature	Maxwell	Maxwell					eExam
<input type="checkbox"/>	FBQ	a material that can easily be drawn into a wire as it undergoes plastic deformation is said to be <input type="text"/>	ductile	ductile					eExam
<input type="checkbox"/>	FBQ	<input type="text"/> point is reached when the molecules of a loaded piece of wire begin to slide past each other as it exceeds its elastic limit	yield	yield					eExam

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<input type="checkbox"/>	FBQ	The process whereby molecules move from the region of high concentration to that of low concentration until equilibrium is established within the system is called <input type="text"/>	diffusion	diffusion				eExam
<input type="checkbox"/>	FBQ	A sensitive device made up of a series of thermocouples which may be used to detect heat radiated at a distance is called <input type="text"/>	thermopile	thermopile				eExam
<input type="checkbox"/>	FBQ	An ideal and the best radiator and absorber of heat the <input type="text"/> radiator	black body	black body				eExam
<input type="checkbox"/>	FBQ	<input type="text"/> ___'s law of cooling states that the rate of lost of heat by a hot body is proportional to the temperature difference between the hot body and its surroudings.	Newton	Newton				eExam
<input type="checkbox"/>	FBQ	The predominant mode of heat transfer in fluids is <input type="text"/>	convection	convection				eExam
<input type="checkbox"/>	FBQ	In the equation $k = (\text{Rate x heat transferred})/(\text{Area x temperature gradient})$, the quantity k stands for <input type="text"/>	thermal conductivity	thermal conductivity				eExam
<input type="checkbox"/>	FBQ	A U-tube sealed at both ends contains nitrogen in one side and helium at pressure P in the other. The gases are seperated by mecury of density D.The mecury level in the arm containing helium is x units of length above the mecury level in the arm containing nitrogen. The pressure exerted by nitrogen on helium is <input type="text"/> ___. Take the acceleration due to gravity as g. (You may choose your answers from the following list; P, xDg, P-xDg, P+xDg)	P+xDg	P+xDg				eExam

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<input type="checkbox"/>	FBQ	In an experiment to verify Boyle's law, a J tube open at one end and closed at the other is used. The pressure exerted on the air trapped, P, is related to the barometric height H and the mercury head h by the equation $P =$ <input type="text"/>	H+h	h+H				eExam
<input type="checkbox"/>	FBQ	A process whereby no heat is allowed to flow into or out of a thermodynamic system is <input type="text"/>	adiabatic	adiabatic				eExam
<input type="checkbox"/>	FBQ	The sum total of all kinds of energy possessed by the constituent particles of a system is called <input type="text"/>	internal energy	internal energy				eExam
<input type="checkbox"/>	FBQ	The amount of heat absorbed or given out during the process of phase change of a substance at a constant temperature is called <input type="text"/>	latent heat	latent heat				eExam
<input type="checkbox"/>	FBQ	The principle of the method of mixtures states that "heat lost by a hot body is equal to heat gained by a cold body provided no heat is lost to the surrounding". This is also the statement of the principle of <input type="text"/>	conservation of energy	conservation of energy				eExam
<input type="checkbox"/>	FBQ	<input type="text"/> temperature is the temperature at which, theoretically, all thermal motions will cease.	absolute zero	absolute zero				eExam
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<input type="checkbox"/>	MCQ	Which of the following is NOT an effect of heat on a substance?	convection	expansion	temperature change	change of state	A	eExam
<input type="checkbox"/>	MCQ	The absolute zero temperature refers to the temperature at which	pure ice, water and water vapour at normal atmospheric pressure are in equilibrium	theoretically all thermal motions will cease	pure ice melts at normal atmospheric pressure	pure ice becomes steam at atmospheric pressure	B	eExam
<input type="checkbox"/>	MCQ	Tin melts at 232 under standard atmospheric pressure. Express this temperature in kelvin	449.16K	505.15K	60.91K	96.19K	B	eExam
<input type="checkbox"/>	MCQ	When the junctions of two dissimilar metals are maintained at different temperatures an electromotive force is set up in the circuit of which these junctions are a part. A pair of junctions of this kind is known as	resistance thermometer	thermocouple	pyrometer	thermistor	B	eExam
<input type="checkbox"/>	MCQ	On what thermometric property does the working of a thermistor depend?	change in pressure with change in temperature	change in volume at constant pressure with change in temperature	change in electrical resistance with change in temperature	change in pressure at constant volume with change in temperature	C	eExam
<input type="checkbox"/>	MCQ	An ungraduated mercury thermometer attached to a millimeter scale reads 22.8mm in ice and 242mm in steam at standard pressure. What will the millimeter read when the temperature is 20°C?	66.64mm	43.84mm	219.20mm	34.54mm	A	eExam
<input type="checkbox"/>	MCQ	A wall or partition that allows free exchange of heat energy between two systems is referred to as --- -----	isothermal	diathermal	adiabatic	isobaric	B	eExam
<input type="checkbox"/>	MCQ	The fundamental interval of a thermometric scale is	the temperature scale	the difference between the upper and the lower fixed points	above the upper fixed point	below the upper fixed point	B	eExam

<input type="checkbox"/>	MCQ	Which of the following is NOT a thermometric property?	the volume of a liquid	the electrical resistance of a conductor	the density of a liquid	the pressure of a gas at constant volume	C	eExam
<input type="checkbox"/>	MCQ	The term "adiabatic" is used to describe a partition that	allows thermal contact between two bodies	ensures steady increase in temperature of the bodies in thermal contact	allows heat lost by one body to be gained by the other body	prevents heat flow between the bodies	D	eExam
<input type="checkbox"/>	MCQ	Two bodies may be said to be in thermal equilibrium if	the bodies are thermally insulated from one another	the bodies are not in thermal equilibrium with another body	if one body loses heat to the other	if there not net flow of heat between the two bodies two bodies in thermal contact	D	eExam
<input type="checkbox"/>	MCQ	Measurement of temperature is referred to as-----	calorimetry	thermodynamics	pyrometry	thermometry	D	eExam
<input type="checkbox"/>	MCQ	Heat can be defined as-----	the change in temperature of a body	the flow of temperature from one body to another	energy that flows from place to place as a result of the difference in temperature between them	the measure of hotness or coolness of a body	C	eExam
<input type="checkbox"/>	MCQ	Measurement of heat energy is referred to as-----	thermodynamics	calorimetry	thermometry	pyrometry	B	eExam
<input type="checkbox"/>	MCQ	One of these is NOT a factor that can affect the rate of evaporation	temperature	pressure	volume of liquid	air dryness	C	eExam
<input type="checkbox"/>	MCQ	When the pressure of the vapour on top of an enclosed liquid is equal to the pressure of the atmosphere, the liquid is at its -----	boiling point	dew point	freezing point	melting point	A	eExam
<input type="checkbox"/>	MCQ	A change of state is often accompanied by a change in (I) temperature (II) density (III) internal energy (IV) mass. Which of these is correct?	I and II	II and III	III and IV	I and IV	B	eExam
<input type="checkbox"/>	MCQ	A person suffers a more severe burn from steam than from boiling water because -----	steam is at higher temperature than boiling water	steam spreads more easily over the skin than boiling water	steam penetrates more deeply into the skin than boiling water	steam possesses greater heat energy per unit mass than boiling water at the same temperature	D	eExam

<input type="checkbox"/>	MCQ	A gas occupies a certain volume at 27 degree celcius.If it is heated at constant pressure, its volume is exactly doubled at a temperature of -----	54 degrees celcius	219 degrees celcius	327 degrees celcius	600 degree celcius	C	<input type="checkbox"/> eExam
<input type="checkbox"/>	MCQ	The process by which a substance changes directly from solid state to gaseous state at any temperature is called	Van der Waals process	sublimation	Newton's law of cooling	evaporation	B	<input type="checkbox"/> eExam
<input type="checkbox"/>	MCQ	The S.I unit of heat capacity is -----	joules	joule per kilogramme	joule per Kelvin	kilogramme per joule	C	<input type="checkbox"/> eExam
<input type="checkbox"/>	MCQ	A railway line is laid with 10 m length of rail on a day when the temperature is 25.0°C . There is a gap of 0.5 cm between the rails. Find the temperature at which the gap will close	27.00degrees	32.50degrees	41.70degrees	44.20degrees	D	<input type="checkbox"/> eExam
<input type="checkbox"/>	MCQ	The ice and steam points on a thermometer correspond to X and 50mm respectively. A temperature of 60degree celcius corresponds to 52mm on the thermometer. Calculate the value of X	4 mm	8 mm	10 mm	20 mm	C	<input type="checkbox"/> eExam
<input type="checkbox"/>	MCQ	The fundamental interval of a thermometric scale refers to -----	triple point of water	difference between upper and lower fixed points	ratio of the upper to the lower fixed point	temperature of steam at standard atmospheric pressure	C	<input type="checkbox"/> eExam
<input type="checkbox"/>	MCQ	A thermocouple works on the principle of -----	variation of e.m.f with temperature	variation of volume with temperature	variation of volume with temperature	variation of resistance with temperature	A	<input type="checkbox"/> eExam
<input type="checkbox"/>	MCQ	Which of the following determines whether a body will be in thermal equilibrium with another body?	thermal energy	zeroth law of thermodynamics	numerical scale	first law of thermal thermodynamics	B	<input type="checkbox"/> eExam
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<input type="checkbox"/>	MCQ	The predominant mode of heat transfer in solids is -----	convection	conduction	radiation	diffusion	B	<input type="checkbox"/> eExam

<input type="checkbox"/>								
<input type="checkbox"/>	MCQ	The second law of thermodynamics	is a statement of the law of conservation of energy	say that heat cannot be completely converted into mechanical energy	is the basis for the definition of temperature	is the basis for the definition of internal energy	B	eExam
<input type="checkbox"/>	MCQ	It is NOT possible to completely convert	heat into internal energy	mechanical energy into heat	internal energy into mechanical energy	internal energy into heat	C	eExam

Showing 1 to 150 of 240 entries

Previous 1 2 Next