

Question Type J	Question	A 11	в Џ	c 11	D 11	Answer ↓↑	Remark 🎵
FBQ	A type of rechargable cell in common use for electrical experiments in the laboratory, which can supply relatively constant voltage and current for a relatively longer period of time is called	accumulator	accumulator				eExam
FBQ	A student designed a circuit which consisted of two variable resistors P and Q, two cells E1 and E2 of negligible internal resistance and a galvanometer. He connected E1 across the series combination of P and Q and then connects the series combination of the cell E2 and the galvanometer across P. He adjusted the variable resistances to obtain a null condition of the galvanometer. The ratio of the emf of E2 to that of E1 is (You may choose your answer from the list: P/Q, (P+Q)/Q, P/(P+Q), Q/(P+Q)	P/(P+Q)	P/(P+Q)				eExam
FBQ	In the absence of a slider contact a clip may be used in experiments involving the use of metre bridge	crocodile	crocodile				eExam
FBQ	In an experiment to determine the internal resistance r of a dry cell using the potentiometer, the resistance box was used to provide different values of the external resistance R in the circuit. A graph of 1/R against was plotted to obtain a straight line of the form y = mx + c, where m = 11/12, 11 and 12 being the balance lengths for open and closed circuits respectively. The intercept on the horizontal axis when 1/R = 0 is used to find the internal resistance fo the cell	1/r	1/r				eExam

FBQ	In an experiment involving two resistances in series, the slope of the graph of V against I represents	equivalent resistance	equivalent resistance		eExam
FBQ	For a metallic conductor, Ohm's law holds provided	temperature	temperature		eExam
FBQ	When plotting straight line graphs of experimental data, the line is referred to as line of	bestfit	bestfit		eExam
FBQ	An electrical source with internal resistance r is used to operate a lamp of resistance R. The fraction of the total power delivered to the lamp is You may choose your answer from: (r+R)/R, (r+R)/r, R/(r+R), R/r	R/(r+R)	R/(r+R)		eExam
FBQ	Another means of introducing variable resistance into a ciruit instead of resistance wire is to use box	resistance	resistance		eExam
FBQ	A 3V- battery with internal resistance of 0.5Ω is connected across a parallel combination of a 1-\$\Omega and 2-\Omega resistances. The current in the 2-\Omega\$ resistance is A to 2 decimal places	0.91	0.91		eExam
FBQ	In an experiment, \$\frac{1}{V}\$ is plotted against \$\frac{1}{I}\$. The physical significance of the slope of the graph is	conductance	conductance		eExam
FBQ	A 1 m\$\Omega\$ resistor is to be made from a 1-mm diameter wire of resistivity \$2.8 \times 10^{-8} \Omega{m}\$. The length of the wire to one place of decimal is cm	2.8	2.8		eExam
FBQ	Two resistances of 2 \$\Omega\$ each are connected in parallel and then connected in series to a 1\$\Omega\$ resistance.The equivalent resistance is \$\Omega\$	2	two		eExam
FBQ	Kirchoff's loop rule represents conservation of	energy	energy		eExam

FBQ	The relation between the current I, through the heated filament and the applied voltage, V, is given by the general form \$\$I = KV^{n}\$\$, where K and n are constants. For the empirical relationship between I and V, a straight line graph is plotted from the relation log I =	n log V + log K	log K+n log V		eExam
FBQ	The slide wire of the figure shown is balanced when the the uniform slide wire AB is divided as shown. The value of the resistance X is \$\$\Omega\$\$	2	two		eExam
FBQ	The diagram shown is called a	metre bridge	Wheatstone bridge		eExam
FBQ	The device shown is called	Wheatstone bridge	Wheatstone bridge		eExam
FBQ	The difference between the emf of a battery and the lost volts when discharging is called potential difference or voltage	terminal	terminal		еЕхат
FBQ	Resistances in series have the same	current	current		eExam
FBQ	In the circuit shown, the name of the device which provides silding contact with the resistance wire PQ is called	jockey	jockey		eExam
FBQ	A cell such Weston cadmium cell is used in a suitable circuit to determine the emf of unknown cell	standard	standard		eExam
FBQ	To change a galvanometer to a voltmeter, connect a high resistance in to it	series	series		eExam
FBQ	In the circuit shown, the wire PQ is usually made up of a material called	constantan	constantan		eExam
FBQ	In the circuit diagram shown, the device marked X is a	galvanometer	galvanometer		eExam

FBQ	In the circuit diagram shown, the wire PQ has the resistance of \$\$5\Omega\$\$ and the driver cell has an emf of 2.00 V. The value of the resistance R if a balance point is obtained at 0.600 m along PQ when measuring an emf of 6.00mV? is (Leave your answer to the nearest whole number)	995	995		еЕхат
FBQ	The null condition in experiments involving the use of the device shown implies that the sare balanced	potential difference	voltage		еЕхат
FBQ	The advantage of the device shown over the voltmeter in measurements of emf is that it does NOT draw from the cell or battery under test	electric current	current		еЕхат
FBQ	The figure shown is the circuit diagram of a	potentiometer	potentiometer		еЕхат
FBQ	In the construction of an ammeter, a low resistance called resistance is connected in parallel to a suitable galvanometer	shunt	shunt		eExam
FBQ	The same electric flows through resistors connected in series	current	current		eExam
FBQ	A device known as may be used for comparison of resistances	Wheatstone bridge	metre bridge		eExam
FBQ	A device which may be used to compare the potential differences of electric cells is	potentiometer	potentiometer		еЕхат
FBQ	The equivalent resistance of a \$2 \Omega\$ and a \$3\Omega\$ resistances in parallel is \$\Omega\$	6/5	1.2		еЕхат
FBQ	The term "lost volts" is used to describe the energy dissipated in the of a source of electromotive force	internal resistance	internal resistance		eExam
FBQ	Resistances in parallel have the same	potential difference	voltage		eExam

FBQ	is defined as the time rate of flow of charge across a unit cross-sectional area of a conductor	electric current	Electric current		eExam
FBQ	The ratio V/I = (The symbols have their usual meaning	R	R		eExam
FBQ	Beyond the critical angle a ray of light moving from dense to rare medium suffers	total internal reflection	total internal reflection		eExam
FBQ	The bending of a ray of light as it travels from one transparent medium to another is called	refraction	refraction		еЕхат
FBQ	For the refraction through the triangular glass prism, \$\$(d-e)^{0}\$\$ was plotted on the vertical axis against \$\$i^{0}\$\$ on the horizontal axis according to the equation d-e = i-A and the symbols have their usual meaning. The graph obtained is a straight line and the intercept on the i-axis is	A	A		еЕхат
FBQ	A lens which is thinnner at centre than at the edge is a	diverging	concave		eExam
FBQ	When an object is placed in front of a convex lens L between F' and 2F', a and inverted image is formed	real	real		eExam
FBQ	For concave mirrors, the object distance is always (Choose from: positve, negative)	positive	positve		eExam
FBQ	The image of an object placed between the focal point and the pole of a concave mirror is behind the mirror, erect, enlarged and	virtual	virtual		eExam
FBQ	Given the radius of curvature R of a spherical mirror, the miiror equation can be written in terms of the object distance u and image distance v as \$\$\frac{1}{u}+\frac{1}{v}=\frac{x}{R}\$\$. X is	2	2		еЕхат

FBQ	In an experiment, based on the equation \$\$\mu=\frac{\sini}{\sinr}\$\$, sini was plotted on the vertical axis and sinr on the horizontal axis. Then, \$\$\mu\$\$ is the of the graph.	slope	gradient		еЕхат
FBQ	The equation \$\$\mu=\frac{\sini}{\sinr}\\$\$, where the symbols have their usual meaning is called _'s law	Snell	Snell		eExam
FBQ	In the equation \$\$\mu=\frac{\sini}{\sinr}\$\$, where I and r are the angles of incidence and refraction respectively, \$\$\mu\$\$ is called the	refractive index	index of refraction		еЕхат
FBQ	The bending of a ray of lightas passes from one medium to another is called	refraction	refraction		eExam
FBQ	A type of rechargable cell in common use for electrical experiments in the laboratory, which can supply relatively constant voltage and current for a relatively longer period of time is called	accumulator	accumulator		
FBQ	A student designed a circuit which consisted of two variable resistors P and Q, two cells E1 and E2 of negligible internal resistance and a galvanometer. He connected E1 across the series combination of P and Q and then connects the series combination of the cell E2 and the galvanometer across P. He adjusted the variable resistances to obtain a null condition of the galvanometer. The ratio of the emf of E2 to that of E1 is (You may choose your answer from the list: P/Q, (P+Q)/Q, P/(P+Q), Q/(P+Q)	P/(P+Q)	P/(P+Q)		
FBQ	In the absence of a slider contact a clip may be used in experiments involving the use of metre bridge	crocodile	crocodile		

FBQ	In an experiment to determine the internal resistance r of a dry cell using the potentiometer, the resistance box was used to provide different values of the external resistance R in the circuit. A graph of 1/R against was plotted to obtain a straight line of the form y = mx + c, where m = 11/12, 11 and 12 being the balance lengths for open and closed circuits respectively. The intercept on the horizontal axis when 1/R = 0 is used to find the internal resistance fo the cell	1/r	1/r		
FBQ	In an experiment involving two resistances in series, the slope of the graph of V against I represents	equivalent resistance	equivalent resistance		
FBQ	For a metallic conductor, Ohm's law holds provided	temperature	temperature		
FBQ	When plotting straight line graphs of experimental data, the line is referred to as line of	bestfit	bestfit		
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FBQ	Another means of introducing variable resistance into a ciruit instead of resistance wire is to use box	resistance	resistance		
FBQ	A 3V- battery with internal resistance of 0.5\$\Omega\$ is connected across a parallel combination of a 1-\\$\Omega\$ and 2-\$\Omega\$ resistances. The current in the 2-\$\Omega\$ resistance is A to 2 decimal places	0.91	0.91		
FBQ	In an experiment, \$\frac{1}{V}\$ is plotted against \$\frac{1}{I}\$. The physical significance of the slope of the graph is	conductance	conductance		

FBQ	A 1 m\$\Omega\$ resistor is to be made from a 1-mm diameter wire of resistivity \$2.8 \times 10^{-8} \Omega{m}\$. The length of the wire to one place of decimal is	2.8	2.8		
FBQ	Two resistances of 2 \$\Omega\$ each are connected in parallel and then connected in series to a 1\$\Omega\$ resistance.The equivalent resistance is \$\Omega\$	2	two		
FBQ	Kirchoff's loop rule represents conservation of	energy	energy		
FBQ	The relation between the current I, through the heated filament and the applied voltage, V, is given by the general form \$\$I = KV^{n}\$\$, where K and n are constants. For the empirical relationship between I and V, a straight line graph is plotted from the relation log I =	n log V + log K	log K+n log V		
FBQ	The slide wire of the figure shown is balanced when the the uniform slide wire AB is divided as shown. The value of the resistance X is \$\$\Omega\$\$	2	two		
FBQ	The diagram shown is called a	metre bridge	Wheatstone bridge		
FBQ	The device shown is called	Wheatstone bridge	Wheatstone bridge		
FBQ	The difference between the emf of a battery and the lost volts when discharging is called potential difference or voltage	terminal	terminal		
FBQ	Resistances in series have the same	current	current		
FBQ	In the circuit shown, the name of the device which provides silding contact with the resistance wire PQ is called	jockey	jockey		
FBQ	A cell such Weston cadmium cell is used in a suitable circuit to determine the emf of unknown cell	standard	standard		

FBQ	To change a galvanometer to a voltmeter, connect a high resistance in to it	series	series			
FBQ	In the circuit shown, the wire PQ is usually made up of a material called	constantan	constantan			
FBQ	In the circuit diagram shown, the device marked X is a	galvanometer	galvanometer			
FBQ	In the circuit diagram shown, the wire PQ has the resistance of \$\$5\Omega\$\$ and the driver cell has an emf of 2.00 V. The value of the resistance R if a balance point is obtained at 0.600 m along PQ when measuring an emf of 6.00mV? is (Leave your answer to the nearest whole number)	995	995			
FBQ	The null condition in experiments involving the use of the device shown implies that the s are balanced	potential difference	voltage			
FBQ	The advantage of the device shown over the voltmeter in measurements of emf is that it does NOT draw from the cell or battery under test	electric current	current			
FBQ	The figure shown is the circuit diagram of a	potentiometer	potentiometer			
FBQ	In the construction of an ammeter, a low resistance called resistance is connected in parallel to a suitable galvanometer	shunt	shunt			
FBQ	The same electric flows through resistors connected in series	current	current			
FBQ	A device known as may be used for comparison of resistances	Wheatstone bridge	metre bridge			
FBQ	A device which may be used to compare the potential differences of electric cells is	potentiometer	potentiometer			

FBQ	The equivalent resistance of a \$2 \Omega\$ and a \$3\Omega\$ resistances in parallel is \$\Omega\$	6/5	1.2		
FBQ	The term "lost volts" is used to describe the energy dissipated in the of a source of electromotive force	internal resistance	internal resistance		
FBQ	Resistances in parallel have the same	potential difference	voltage		
FBQ	defined as the time rate of flow of charge across a unit cross-sectional area of a conductor	electric current	Electric current		
FBQ	The ratio V/I = (The symbols have their usual meaning	R	R		
FBQ	Beyond the critical angle a ray of light moving from dense to rare medium suffers	total internal reflection	total internal reflection		
FBQ	The bending of a ray of light as it travels from one transparent medium to another is called	refraction	refraction		
FBQ	For the refraction through the triangular glass prism, \$\$(d-e)^{0}\$\$ was plotted on the vertical axis against \$\$i^{0}\$\$ on the horizontal axis according to the equation d-e = i-A and the symbols have their usual meaning. The graph obtained is a straight line and the intercept on the i-axis is	A	A		
FBQ	A lens which is thinnner at centre than at the edge is a	diverging	concave		
FBQ	When an object is placed in front of a convex lens L between F' and 2F', a and inverted image is formed	real	real		
FBQ	For concave mirrors, the object distance is always (Choose from: positve, negative)	positive	positve		
FBQ	The image of an object placed between the focal point and the pole of a concave mirror is behind the mirror, erect, enlarged and	virtual	virtual		

EBC	Civen the radius of sum-time Def	2	2				
FBQ	Given the radius of curvature R of a spherical mirror, the miiror equation can be written in terms of the object distance u and image distance v as \$\$\frac{1}{u}+\frac{1}{v}=\frac{x}{R}\$\$. X is	2	2				
FBQ	In an experiment, based on the equation \$\$\mu=\frac{\sini}{\sinr}\$\$, sini was plotted on the vertical axis and sinr on the horizontal axis. Then, \$\$\mu\$\$ is the graph.	slope	gradient				
FBQ	The equation \$\$\mu=\frac{\sini} {\sinr}\$\$, where the symbols have their usual meaning is called _'s law	Snell	Snell				
FBQ	In the equation \$\$\mu=\frac{\sini} {\sinr}\$\$, where I and r are the angles of incidence and refraction respectively, \$\$\mu\$\$ is called the	refractive index	index of refraction				
FBQ	The bending of a ray of lightas passes from one medium to another is called	refraction	refraction				
мсо	The advantage of potentiometer over voltmetr in measurements of emf is that	the potentiometer wire is assumed to be uniform	it does not draw current from the circuit under test	the temperatue of the wire must remain constant	faults may arise due to breaks or wrong connections in the circuit	В	eExam
мсо	Which of these is not a useful precaution in an electrical experiment?	key should be removed between readings to avoid battery run-down	jockeys should be dragged on resistance wires	the connections in the circuit should be tight	readings should be recorded as soon as they are obtained	В	eExam
MCQ	Which of the following is NOT true about a rheostat?	It is a constant current instrument	It is a resistor with moving contact	It is used for varying the current in a circuit	It is used for varying the resistance in a circuit	Α	eExam
MCQ	In an experiment, potential difference is plotted on the vertical axis and current on the horizontal axis. The slope of the graph represents	resistivity	conductivity	resistance	conductance	С	eExam
MCQ	For a metallic conductor, Ohm's law holds provided	potential difference varies	current remains constant	temperature remains constant	potential difference remains constant	С	eExam
MCQ	The lens of the human eye is	concave	converging	planconcave	diverging	В	eExam

MCQ	Which of the following precautions is NOT applicable to experiment involving planoconvex lens?	planoconvex lens should have small focal length	parallax error should be avoided	the surface of the lens should be cleaned properly	the tip of the optical pin should be at the same level with the principal axis of the lens	A	еЕхат
MCQ	A glass prism of refracting angle 60 degrees gives a minimum deviation of 47degrees. What is the refractive index of the glass?	1.61	1.20	1.52	1.41	A	eExam
MCQ	Calculate the distance and magnification of an object placed 20cm from a converging lens	60cm and 0.3 times the size of object	20cm and 0.3 times the size of object	60cm and 3 times the size of object	80cm and 3 times the size of object	D	eExam
MCQ	diopter measures	linear magnification of lens	power of lens	inverse of object distance from lens	inverse of image distnce from lens	С	eExam
MCQ	Which of the following is not true about diverging lens	the principal focus is positive	the principal focus is ngative	they poduce virtual images only	they form virtual, erect and smaller images of real object	В	eExam
MCQ	In an experiment to determine the focal length of a convex lens, 1/u \$(cm^{-1})\$ was plotted on horizontal and 1/v \$(cm^{-1})\$ on the vertical axis, where u and v have their usual meaning. What is the physical significance of the reciprocal of the intercept on the horizontal axis?	linear magnification	focal length	object distance	image distance	С	eExam
MCQ	In an experiment to determine the focal length of a convex lens, 1/u \$(cm^{-1})\$ was plotted on horizontal and 1/v \$(cm^{-1})\$ on the vertical axis, where u and v have their usual meaning. What is the physical significance of the reciprocal of the slope of the graph?	linear magnification	focal length	object distance	image distance	A	eExam
MCQ	In practical experiment inloving the use of optical pins, parallax is reduced or removed if on slightly displacing one's eye from side to side	the object and image are not coincident but move together in same directions	the object and image move in opposite directions relative to each other	the object and image are coincident and move together in the same direction	the object and image are coincident and remain stationary	С	eExam
MCQ	In an experiment with a concave mirror, the image of an optical pin which is 4 times its size was cast on on a screen 6m from the object pin. How far from the object pin should the mirror be placed?	8m	6m	3m	2m	D	еЕхат

MCQ	The image of an object which is between the concave mirror's reflecting surface and its principal focus is	in front of the mirror erect real and diminished	behind the mirror inverted real and diminished	in front of the mirror erect virtual and enlarged	behind the mirror erect virtual and enlarged	D	eExam
MCQ	The bending of a ray of light as it travels from one transparent medium to another is called	reflection	polarisation	refraction	diffraction	С	eExam
MCQ	In the construction of an ammeter, a low resistance called resistance is connected in parallel to a suitable galvanometer	multiplier	shunt	milliammeter	galvanometer	В	eExam
MCQ	The unit of electrical energy expended per unit time is calledd	joule	ampre	volt	watt	D	eExam
MCQ	The name of the device which provides sliding contact with the potentiometer wire is called	jockey	rheostat	galvanometer	meter bridge	А	eExam
MCQ	The difference between the emf of a battery and the lost volts when discharging is called	electromotive force	terminal voltage	internal resistance	lost power	В	eExam
MCQ	A device known as may be used for comparison of resistances	Wheatstone bridge	potentiometer	voltmeter	rheostat	Α	eExam
MCQ	A device which may be used to compare the potential differences of electric cells is called	metre bridge	wheatstone bridge	rheostat	potentiometer	D	eExam
MCQ	The term "lost volts" is used to describe of a cell	electromotive force	terminal potential difference	energy dissipated in the internal resistance	total current	С	eExam
MCQ	The time rate of flow of charge across a unit cross-sectional area of a conductor defines	potential differenc	electromotive force	electrical resistance	electric cirrent	D	eExam
MCQ	A 1 m\$\Omega\$ resistor is to be made from a 1-mm diameter wire of resistivity \$2.8\time10{-8}.Find the length of the wire	4.2cm	3.6cm	2.8cm	1.4cm	С	eExam
MCQ	Which of the following is correct?	Kirchoff's junction rule reprecents conservation of momentum	Kirchoff's loop rule represents conservation of charge	Kirchoff's loop rule represents conservation of energy	Kirchoff's junction rule represents conservation of energy	С	eExam
MCQ	Two resistances of \$2\Omega\$ each are connected in parallel and then connected in series to a \$1\Omega\$ resistance. What is the equivalent resistance	1\$\Omega\$	2\$\Omega\$	3\$\Omega\$	4\$\Omega\$	В	eExam

MCQ	A slide-wire potentiometer is balanced against 1.0182V standard cell at slide contact of 40.2cm. For an unknown emf the slide contact is 11.9cm.What is the emf of the unknown cell?	1.24V	0.24V	1.53V	0.30V	D	еЕхат
MCQ	The null condition in potentiometer experiment shows that	the potential difference under test is zero	current is varying in the circuit	current is increasing in the circuit	potential differences are balanced	D	eExam
MCQ	Which of the following is NOT correct about the experiment shown?	R1 and R2 are inseries	the same current flows through R1 and R2	the potential difference across R1 and R2 is the same	the equivalent resistance of R1 and R2 is the sum of the two resistances	С	eExam
MCQ	The advantage of potentiometer over voltmeter in measurements of emf is that	the potentiometer wire is assumed to be uniform	it does not draw current from the circuit under test	the temperature of the wire must remain constant	faults may arise due to breaks or wrong connections in the circuit	В	eExam
MCQ	Which of these is not a useful precaution in an electrical experiment?	key should be removed between readings to avoid battery run-down	jockeys can be dragged or pressed sufficiently hard on resistance wires	the connections in the circuit should be tight	readings should be recorded as soon as they are obtained	В	eExam
MCQ	Which of the following is not true about a rheostat?	It is a constant current instrument	It is a variable resistor with moving contact	It is used for varying the current in a circuit	It is used for varying the resistance in a circuit	A	еЕхат
MCQ	In an experiment, potential difference is plotted on the ordinate (vertical axis) and current on the abscissa(horizontal axis). The slope of the graph represents	potential difference	current remains constant	resistance	resistivity	С	еЕхат
MCQ	In an experiment to determine the refractive index of glass using the triangular glass prism, the difference between the angle of deviation and the angle of emergence \$\$(d-e)^{0}\$\$ was plotted on the vertical axis against the angle of incidence \$\$i^{0}\$\$ on the horizontal axis. From which of the following can the value of the angle of the prism, A be found from the graph?	slope of graph	inverse of the slope of grap	intercepts on either axes	inverse of the intercept on either of the axes	С	eExam

MCQ	In an experiment to determine the refractive index of glass using the triangular glass prism, the difference between the angle of deviation and the angle of emergence \$\$(d-e)^{0}\$\$ was plotted on the vertical axis against the angle of incidence \$\$i^{0}\$\$ on the horizontal axis. Which of the following correctly gives the sketch of the graph?	I	II	III	IV	D	eExam
MCQ	In an experiment to determine the focal length of a convex lens using an optical bench, a graph of was plotted with the values of 1/v on the vertical ais and 1/u on the horizontal axis. Which of the following correctly gives the power of the lens?	slope of the grah	inverse of the slope of the graph	intercept on either of the axes	inverse of the intercept on either of the axes	С	eExam
MCQ	Describe the image of candle positioned 20 cm in front of a concave mirror of focal length 3 0cm	virtual, inverted, 12cm behind mirror and magnified 3 times	real, inverted, 12cm in front of mirror and diminished 3 times	virtua,I erect, 60cm behind mirror and magnified 3 time	real, erect, 60cm in front of mirror and diminished 3 times	С	eExam
MCQ	In an experiment to determine the focal length of a convex lens using an optical bench, the object pin was placed in front of the lens between F' and 2F'. Describe the image of the the pin as seen on the other side of the lens.	real and inverted	real and upright	virtual and erect	virtual and upright	A	еЕхат
MCQ	In an experiment to demonstrate how the object and images distances vary for a convex mirror, a graph with 1/u on the ordinate and 1/v on the abscissa was plotted. Which of the following figures correctly gives the shape of the graph?	I	II	III	IV	В	eExam
MCQ	In an experiment involving a spherical mirror, 1/v was plotted on the vertical axis and 1/u on the horizontal axis. What is the linear magnification?	slope of the graph	inverse of the the slope of the graph	intercept on the vertical axis	intercept on the horizontal axis	В	eExam
MCQ	Which of the following is NOT true of experiments involving curved mirrors?	image distance is negative for for real image	object distance is positive	image distance is negative for virtual image	focal length is negative for convex mirrors	A	eExam
MCQ	In an expreiment, derived values such as those obtained from four figure tables should be recorded to at least decimal places	2	3	5	7	В	eExam

MCQ	Which of the following is NOT applicable when plotting the graph of experimntal data?	Lines of bestfit should always be used to connect the plotted points	circled dots or crosses may be used to show plotted points	thin, sharp and continuous lines are acceptable	the scale must be chosen to make the graph occupy as small as possible of the graph page	D	eExam
MCQ	An estimate of the refractive index of glass is 1.5. If the angle of incidence is \$\$30^{o}\$\$ the angle of refraction is	\$\$19^{o}\$\$	\$\$60^{o}\$\$	\$\$35^{o}\$\$	\$\$70^{o}\$\$	A	eExam
MCQ	The critical angle for total internal reflection at an air- water interface is approximately \$\$48^{0}\$\$. In which of the following situations will total internal reflection occur.	light incident in water at \$\$440^{o}\$\$	light incident in water at \$55^{o}\$\$	light incident in air at \$\$40^{o}\$\$	light incident in air at \$\$55^{o}\$\$	В	eExam
MCQ	In experimental observations involving rectangular glass blocks,	the angle of incidence is less than the angle of refraction in general	the angle of incidence is equal to the angle of refraction	the angle of incidence is greater than the angle refraction when light is moving out of the block	the angle of refraction is less than the angle of incidence when light is entering the block	D	еЕхат
MCQ	Which of the following is NOT a precaution in optical experiments that involve glass blocks?	sharp, thin lines should be drawn to represent the rays	The glass block must be properly replaced on the traced outline	Optical pins must cluster together	Optical pins must be kept erect	С	eExam
MCQ	In an optical experiment to determine the refractive index of a glass block, a student plotted the values of the sines of the angles of incidence, \$\$sini\$\$ on the vertical axis and the values of the sines of the angles of refraction, \$\$sinr\$\$ on the horizontal axis of his graph. Which of the following correctly gives the refractive index of the glass block from Snell's law using his graph?	intercept on the horizontal axis	intercept on the vertical axis	inverse of the slope of the graph	slope of the graph	D	eExam

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