Delete Selectory 150 Question Type FBQ	↓ Question ↓↑	►Ass	ign Selected Ques	stions to eExa	m				
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FBQ		A	l↑ B	ŢĮ	С	11	D	11	An
	If $f=x^2yz$ and $g=xy-3z^2$, calculate $orall \cdot (orall fx abla g)$	0	zero						
FBQ	The vector product of a and b is denoted by	axb	a xb						
FBQ	Determine the directional derivative of $f=xy^2+yz^3$ at the point (2, -1, 1) in the direction of vector i+2j+2k	-3.667							
FBQ	A convectional vector that could reversed by changing from a right-hand to left – hand convection is called an _?	axial							
FBQ	A quantity specified by magnitude alone is called quantity	Scalar							
FBQ	A vector could be defined as a quantity which has both magnitude and	direction							

FBQ	If $r_1=3i-2j+k \ ,$, $r_2=2i-4j-3k \ \ {\rm and} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	3			
FBQ	The two energy referred to in conservation of energy are and Energy (separate your answers with a coma and a single space)	Kinetic, potential	Potential, kinetic		
FBQ	The work done in moving a system of particles from a state with kinetic energy (50f+d) to a state of kinetic energy of (72f+4d) is	22f+3d			
FBQ	How many degrees of freedom has 8 particles moving freely in space	24			
FBQ	The limitations on the motion of a particle or system of particles that can be expressed as an equation is called	Holonomic			
FBQ	For \$\$r_{1}=2i-j+k\$\$, \$\$r_{2}=i+3j-2k\$\$, \$\$r_{3}=-2i+j-3k\$\$, \$\$r_{4}=3i+2j+5k\$\$, find b such that \$\$r_{4}=ar_{1}+br_{2}+cr_{3}\$\$	1			
FBQ	mathematical model in which the distance between any two specified particles of a system remains the same regardless of applied forces is called?	Rigid body			
FBQ	If a and b are non-collinear vectors and A = (x + 4y) a + (2x+y+1)b and B = (y-2x+2)a+ (2x-3y-1)b, find y such that 3A = 2B	-1			

FBQ	Find the resultant of the following displacements: A, 20 Km 30° south of east; B, 50 Km due west; C, 40 Km northeast; D, 30 Km 60° south of west Kg (answer to a decimal place)	20.9				
MCQ	The scalar triple product vanishes if the vectors are	axial vector	planar vector	coplanar vector	flexural vector	С
MCQ	The scalar product b.c implies that	the length of b divided by the projection of c on b, or vice versa.	the length of b multiplied by the projection of c on b, or vice versa.	the product of b and c multiplied by the projection of c on b, or vice versa.	all of the above	В
MCQ	The Scalar product is defined as	\[a\dot b = ab Sin\theta\]	\[a\dot b = ab Cos\theta\]	\[a x b = ab Sin\theta\]	None of the above	В
MCQ	If\[\theta\] is the angle between the vectors a and b, then by elementary trigonometry the length of their sum is given by	\[(a + b)^2 = $a^2 + b^2 + 2abCos$ \theta\]	$[(a + b)^2 = a^2 - b^2 + 2abSin\theta]$	\[(a - b)^2 = a^2 + b^2 + 2abCos\theta\]	\[(a + b)^2 = a^2 + b^2 + 2abSin\theta\]	A
MCQ	The addition of two vectors a and b defined geometrically by drawing one vector from the head of a to b is known as the	triangular law for addition of forces.	rectangular law for addition of forces	law of addition of forces	parallelogram law for addition of forces	D
MCQ	What is the relationship between vectors a and b if \ [a\dot b = 0 \]?	Parallel	Symmetrical	Perpendicular	Asymmetrical	С
MCQ	The vector product of any two non-parallel vectors a and b drawn from 0 define a unique axis through the origin 0 perpendicular to the plane containing a and b is given by	\$\$\left a \times b \right = ab sin \theta\$\$	\$\$\left a \times b \right = ab cos \theta\$\$	\$\$\left b \times a \right = ab sin \theta\$\$	\$\$\left b \times a \right = ab cos \theta\$\$	A
MCQ	Gauss' theorem states that if V is a volume in space bounded by the closed surface S,then for any vector field B	\$\$\iint d\\bigtriangledown\cdot B = \iint_{s} dS \cdot B\$\$	\$\$\iiint_{v} d\\bigtriangledown\cdot B = \iint_{s} d\ \cdot B\$\$	\$\$\iiint_{v} d\\bigtriangledown\cdot B = \iint_{s} dS \cdot B\$\$	\$\$\iiint_{v} dV\bigtriangledown\cdot S = \iint_{s} dS \cdot B\$\$	В
MCQ	Stokes' theorem states that if A is any vector field, then	\$\$\int\int dS\cdot(\bigtriangledown \times A) = \oint_{c}dr\cdot A\$\$	\$\$\int\int dS\cdot(\bigtriangledown \times A) = \oint dr\cdot A\$\$	\$\$\int dS\cdot(\bigtriangledown \times A) = \oint_{0}dr\cdot A\$\$	none of the above	А
MCQ	The vector product of a and b is denoted by	\$\$a \cdot b\$\$	a, b	\[a ^b\]	axb	D
MCQ	Let T be a symmetric tensor such that \$\$T.a = \lambda a\$\$ then \$\$\lambda\$\$ is called of T	unit vector	eigenvalue	eigenvector	all of the above	В
MCQ	Let T be a symmetric tensor such that \$\$T.a = \lambda a\$\$ then a is called of T	unit vector	eigenvalue	eigenvector	all of the above	С
MCQ	When was a system of particles in equilibrium?	When the total virtual work of the actual force is at equilibrium	When the total virtual work of the actual force is zero When the total virtual work of the actual force is constant		When the total force of the actual virtual work is zero	В

MCQ A man travelling southward at 15 m/hr observes that the wind appears to be coming from the west. On increasing his speed to 25 m/hr it appears to be coming from the southwest. Find the direction and speed of the wind		15 m/hr observes that the wind appears to be coming from the west. On increasing his speed to 25 m/hr it appears to be coming from the southwest.	The wind is coming from a direction 56°18' east of west at 15 m/hr	The wind is coming from a direction 56°18' north of west at 18 m/hr	The wind is coming from a direction 56°18' south of west at 15 m/hr	The wind is coming from a direction 56°18' north of east at 18 m/hr	В
	MCQ	\$\$A=2i+3j+4k\$\$ and \$\$B=i-2j+3k\$\$ find the angle between vectors A and B	\$\$32^{0}54^{1}\$\$	\$\$48^{o}32^{1}\$\$	\$\$72^{0}30^{1}\$\$	\$\$66^{o}36^{1}\$\$	D
	MCQ	If \$\$F=isin2t+je^{3t}+k(t^{t}-4t) \$\$, find dF/dt	\$\$2cos2i+3e^{3}j-k \$\$	\$\$cos2i+3e^{3}j-k \$\$	\$\$2cos2i+3e^{3}j-4k \$\$	\$\$2cosi+3e^{3}j-2k \$\$	А
	MCQ	Determine the unit tangent vector for the curve x=3t; y=2t2; z=t2+t at the point (6,8,6).	\$\$\frac{2}{\sqrt{3}} (2i+8j+6k)\$\$	\$\$\frac{5}{\sqrt{81}} (i+2j+5k)\$\$	\$\$\frac{1}{\sqrt{98}} (3i+8j+5k)\$\$	\$\$\frac{3}{\sqrt{5}} (3i+j+5k)\$\$	С
	MCQ	The force acting on a particle at time t is F(t)=6ti+j, If the particle starts from the point (3,-1,2) with the velocity v(0)=4k, find parametric equations of its path in y directio	\$\$y=\frac{3t}{2m}-6\$\$	\$\$y=\frac{t}{2m}-2\$\$	\$\$y=\frac{t^{3}}{2m}-3\$\$	\$\$y=\frac{t^{2}} {2m}-1\$\$	D
	MCQ	For a body of mass m with a acceleration D' Alembert's principle can be expressed as	\$\$(m_{i}a_{i}).\delta r_{i}=0\$\$	\$\$(\sum_{N}^{i=1}F_{i}- m_{i}a_{i}).\delta r_{i}=\frac{m}{a} \$\$	\$\$(\sum_{N}^{i=1}F_{i}- m_{i}a_{i}).\delta r_{i}=0\$\$	\$\$(\sum_{N}^{i=1}m_{i}- m_{i}a_{i}).\delta r_{i}=0\$\$	С
	MCQ	Let \$\$ a=(3i-2j+k)\$\$, \$\$b=2i-4j-3k\$\$ and \$\$c=-i+2j+2k\$\$, find the magnitude of a+b+c	\$\$4\sqrt{2}\$\$	\$\$5\sqrt{2}\$\$	\$\$8\sqrt{3}\$\$	\$\$4\sqrt{3}\$\$	A

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