Vectors Test Review Quiz

() This is a preview of the draft version of the quiz

Started: Nov 13 at 8:20am

Quiz Instructions

Question 1	1 pts
When two concurrent (aka simultaneous) forces of 6 and 12 New what is the maximum resultant?	tons act on an object,

Question 2	1 pts
When two concurrent (aka simultaneous) forces of 6 and 12 Newtor what is the minimum resultant?	ns act on an object,



Question 4	1 pts
The minimum resultant of two forces acting on an object will occur when the angle between the two vectors is degrees.	
0 30	
○ 0	
O 45	
O 90	
180	
120	

Question 5	1 pts
The maximum resultant of two forces acting on an object will occur when the angle between the two vectors is degrees.	2
◎ 180	
• 45	
90	
30	
0	

Question 6	1 pts
A resultant force of 12 Newtons is made up of two vector components acting at 90 degrees to one another. If the magnitude of one component is 8 Newtons, what is	the

magnitude of the other component?

Question 7	1 pts
The equilibrant is the negative of the resultant.	
True	
False	

Question 8	1 pts
A 6 Newton vector pointed North is added to a 6 Newton vector pointed east, wha direction of the resultant?	it is the
○ SE	
○ SW	
○ NE	
○ NW	

Question 9	1 pts
A 6 Newton vector pointed North is added to a 6 Newton vector pointed east, what direction of the equilibrant?	is the
○ SE	

◯ SW			
○ NE			
○ NW			

Question 10	1 pts
A 6 Newton vector pointed North is added to a 6 Newton vector pointed east, w magnitude of the resultant?	hat is the

Question 11	1 pts
It is possible for two vectors of magnitude 5 each to add to a resultant of 11.	
O True	
False	

Question 12	1 pts
It is possible for two vectors of magnitude 5 each to add to a resultant of 7.	
O True	
False	

Question	13
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1 pts

For objects on an inclined plane, equilibrium along the ramp is achieved when fric force is congruent to the weight parallel component.	
O True	
False	

Question 14	1 pts
For objects on an inclined plane, equilibrium perpendicular to the ramp is achiever force normal is congruent to the weight perpendicular component.	d when
O True	
○ False	

Question 15	1 pts
An object sliding down an inclined plane at a constant velocity is not in equilibrium	
O True	
False	

Question 16	1 pts
An object accelerating down an inclined plane at velocity is in equilibrium.	
○ True	
○ False	

Question 17	1 pts
Force normal is always pointed in the opposite direction of force gravity.	
○ True	
False	

Question 18	1 pts
Force normal is always pointed in the opposite direction of the perpendicular com of weightwhich is perpendicular to the ramp.	ponent
True	
False	

Question 19	1 pts
The vertical component of a vector increases as the angle of the vector increases. *Assume the vector angle is bounded between 0 and 90 degrees.	
True	
 False 	



Displacement is 0 meters if an object ends at the same p	osition at which it began.
○ True	
False	

Question 21	1 pts
For objects on an incline, the coefficient of friction depends on the angle of the rangle not the materials of the object.	mp and
True	
False	

Question 22	1 pts
The perpendicular component of weight causes an object to accelerate there is no friction.	e down an incline if
True	
False	

Question 23	1 pts
Friction is equal to force normal multiplied by the coefficient of friction.	
○ True	
False	

Question 24	1 pts
Velocity is a vector and can be resolved (aka 'broken up') into two component vector	ors.
O True	
False	
Question 25	1 pts
The angle of the ramp is always equal to the angle between the weight force vecto the perpendicular weight component vector.	r and

True

False

No new data to save. Last checked at 8:21am

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