Quiz 02

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PHY-106 Applied Physics

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Which of the following statement is wrong? *	1 point
There is no field near an isolated charge at rest	
Charge is Quantized	
Charge is conserved	
A moving charge produces both electric and magnetic field	
In the region where the field lines are parallel and equally spaced, the field is *	1 point
Zero	
Uniform	
O Non-Uniform	
Negative	

What is the minimum electrostatic force between two charged bodies placed at a distance of 1m? * 1 point $6.2 \times 10^{-34} N$ $2.3 \times 10^{-28} N$ Option 2 Option 1

 $1 \times 10^{-19} N$

 $1.02 \times 10^{-23} N$

Option 3 Option 4

Why a positively charged object is made neutral (discharged) by someone touching it? * 1 point Electrons flow from the object Protons flow onto the object Protons flow from the object Electrons flow onto the object

Which of these is not a method of charging? * 1 poin	nt	
Friction or rubbing		
Induction		
Contact or touching		
Convection		
Which method of charging is involved in making lighting? *	, t	
which the thou of charging is involved in making digiting:	11	
Friction		
Convection		
Induction		
Contact		
The permitivity of a medium *	nt	
Is a measure of its density		
is dependent on charge density of a medium		
Determines the magnitude of an electric field that can established by the medium		
None of these		

The total electric intensity at a point in the region of number of charges is equal to st	1 point	
The algebraic sum of the intensities at the point		
The vector sum of the intensities at the point		
The sum of electric charges acting at the point		
None of these		
The coulomb's force between the 2 point charges 10µC and 5µC placed at a distance of 150 cm is *	1 point	
O 10 N		
O 2 N		
O.5 N		
● 0.2 N		
*	1 point	
If Q_1 charge exerts some force on Q_2 charge. When a third charge Q_3 in brought near, then the force of Q_1 exerted on Q_2 will		
Become infinite		
Remains unchanged		
Decreases		
Increases		

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The force exerted by the two charged bodies on another obeys Coulomb's law provided that *	1 point
Both bodies are in the same medium	
The charges are not too greater	
On body does not lie inside the other	
The charges are very small than the distance between them	
Dielectric constant for a metal is *	1 point
Infinite	
O 1	
O 0	
None of these	
The direction of electric field intensity in an electric field can be represented by drawing *	1 point
points	
images	
circles	
lines	

The direction of Electric Field due to -5 negative charge is *	1 point
 Away from the charge Towards the charge None of these Both a and b 	
Which of the following does not reflect the law of static charges *	1 point
Like charges repel Opposite charges attract	
Neutral charges repel	
Neutral objects are attracted to charged ones	
The direction of free test charge will be the direction of *	1 point
Coulomb's force	
magnetic intensity	
electric intensity	
protons	

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Which of the following statement is true?*	1 point
Electrostatic force is a conservative force.	
Potential at a point is the work done per unit charge in bringing a charge from any point to infin	ity.
Electrostatic force is non-conservative	
Potential is the productof charge and work.	
What information is given by the tangent to a field line at the point of electric field *	1 point
Direction	
Magnitude	
O Proper unit	
Dimensions	

Which of the following is the largest measure of charge?*	1 point
$10^{-7}\mu C$	$10^{12}eV$
Option 1	Option 2
$10 \mu C$ Option 3	100 eV
The value of k in coulomb's law depends upon *	1 point

The value of k in coulomb's law depends upon *

magnitude of charges
distance between charges
medium between two charges
all of above

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