



PHYSICS

GRADE - 12



• LIVE

ELECTROSTATICS MENTI QUIZ

| SURI SIR |



SURI SIR IIT BOMBAY

ACCORDING TO PHYSICS...
THE GLASS IS NEVER EMPTY



njoy_suri





Harsh Sir

Theory Class: Monday
& Thursday (9pm)

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Wednesday (8pm)



Suri Sir

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Electrostatic force F is directly proportional to :

- A** r^2 (distance squared)
- B** q_1
- C** q_2
- D** both q_1 and q_2

The value of k in coulomb's law depends upon

- A** magnitude of charges
- B** distance between charges
- C** medium between two charges
- D** all of above

When the distance between two charges is halved, the electrical force between the charges

- A quadruples
- B reduces to one fourth
- C halves
- D doubles

The relative permittivity of free space is given by

- A** 1
- B** 10
- C** 100
- D** 1000

A charge q_1 exerts some force on a second charge q_2 . If third charge q_3 is brought near, the force of q_1 exerted on q_2

- A Decreases
- B Increases
- C Remains unchanged
- D Increases if q_3 is of the same sign as q_1 and decreases if q_3 is of opposite sign.

The space surrounding a charge, within which the influence of the charge extends is known as :

- A** Electrical Intensity
- B** Lines of force
- C** Magnetic field
- D** Electrical field



What direction are the electric field lines around an electron?

- A** towards the charge
- B** away from the charge
- C** Concentric lines
- D** Parallel lines



What does it mean when the electric field lines are close together?

- A** the field is positive
- B** the field is negative
- C** the field is strong
- D** the field is weak



If F is the force acting on the test charge q , the electric field intensity E would be given by

A $E = F - q$

B $E = F/q$

C $E = F + q$

D $E = q/F$

Electric field intensity is a quantity

- A** Scalar
- B** Vector
- C** Both (A) and (B)
- D** None of the above



An electron is projected with certain velocity into an electric field in a direction opposite to the field. Then it is

- A** Accelerated
- B** Retarded
- C** Neither accelerated nor retarded
- D** Either accelerated or retarded

The amount of work done in bringing unit positive charge from infinity to a point in electric field is called

- A coulomb's force
- B electrostatic force
- C electric potential
- D resistance

If 5 J of work is required to shift 10 C charge from one place to another then the potential difference is

A 0.5 V

B 2 V

C 5 V

D 10 V

A field line and an equipotential surface are

- A always parallel
- B always at 90°
- C inclined at any angle θ
- D none of the above



If a unit positive charge is taken from one point to another over an equipotential surface, then

- A** work is done on the charge
- B** work is done by the charge
- C** work done is constant
- D** no work is done



When an electric dipole is placed in a uniform external electric field, it will experience

- A** a torque but no force
- B** a force but no torque
- C** a torque as well as force
- D** neither a force nor a torque



The torque on a dipole kept in a uniform electric field is

- A $p E \sin \theta$
- B $2q E \sin \theta$
- C $P E \cos \theta$
- D $2p E \cos \theta$

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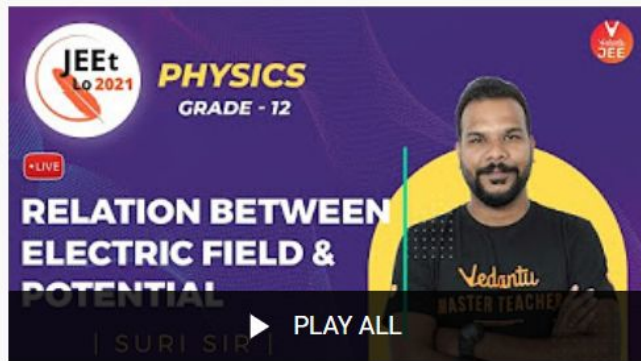
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