Step Academy official

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STUDENT NAME	
PAPER CODE	22656
TIME ALLOWED	60
Paper Date	10-02-2026

CLASS	New 1st Year (FSC/ICS)
SUBJECT	Physics
TOTAL MARKS	25
Paper Type	

Q1. Choose the correct answer. **5X1=5**

1. The electric field created by positive charge is:

(A) Radially inward **(B)** Zero **(C)** Circular **(D)** Radially outward

2. The force on an electron of 1 x 10^{8} NC^{-1} will be:

(A) 1.6 x 10^{-8} N **(B)** 1.6 x 10^{-11} N **(C)** 1.6 x 10^{-19} N **(D)** 1.6 x 10^{27} N

3. A charged conductor has charge on its:

(A) Inner-surface **(B)** Outer-surface **(C)** Middle point **(D)** Surrounding space

4. What is the work done on an election by potential difference of 100 volts?

(A) 1.6 x 10^{-19} eV **(B)** 1.6 x 10^{-17} eV **(C)** 6.25 x 10^{-17} eV **(D)** 100 eV

5. The potential at a point situated at a distance of 50cm from a charge of 50 μC is:

(A) 9 x 10^{-4} volts **(B)** 18 x 10^{-4} volts **(C)** 9 x 10^{5} volts **(D)** 18 x 10^{4} volts

Q2. Write short answers of the following questions. **5X2=10**

1 . How do electric field lines appear between two opposite charges?

2 . What is meant by zero electric potential?

3 . Is electron-volt a unit of potential difference or energy? Explain.

4 . What is a balancing length?

5 . What is a light dependent resistor (LDR)?

Q3. Write detailed answers of the following questions. **2X5=10**

1 . Explain the electric potential and prove that electric field intensity is equal to the negative of potential gradient.

2 .
The emf of a battery is 12 V. It is connected to a 3.6 O resistor. If the internal resistance of the battery is 0.2 O, what will be the terminal voltage across the battery?