

Parishram (2025)

Physics

DPP: 1

Electric Charges and Fields

- Q1** Soap bubble 'A' is given a negative charge and soap bubble 'B' is given a positive charge, then radius of bubble 'A' and 'B'
- (A) decreases, decreases
(B) increases, decreases
(C) decreases, increases
(D) increases, increases
- Q2** A body can be negatively charged by
- (A) Rubbing
(B) By connecting with earth under the influence of positively charged conductor
(C) By connecting it with negatively charged conductor
(D) All of the above
- Q3** Two bodies are charged by rubbing one against the other. During the process, one becomes positively charged while the other becomes negatively charged. Then mass of each body
- (A) Remains unchanged
(B) Charges marginally
(C) Total mass changes slightly
(D) Changes slightly but the total mass remains unchanged
- Q4** When a glass rod is rubbed with silk, it
- (A) Gains electrons from silk
(B) Gives electrons to silk
(C) Gains protons from silk
(D) Gives protons to silk
- Q5** Number of electrons in one coulomb of charge will be
- (A) 5.46×10^{29}
(B) 6.25×10^{18}
(C) $1.6 \times 10^{+19}$
(D) 9×10^{11}
- Q6** The electric charge in uniform motion produce
- (A) An electric field only
(B) A magnetic field only
(C) Both electric and magnetic field
(D) Neither electric nor magnetic field
- Q7** Identify the wrong statement.
- (A) Charge is a vector quantity
(B) Current is a scalar quantity
(C) Charge can be quantised
(D) Charge is additive in nature.
- Q8** If a charge on the body is -1 nC , then how many number of excess electrons are present on the body?
- (A) 1.6×10^{19}
(B) 6.25×10^9
(C) 6.25×10^{27}
(D) 6.25×10^{28}



Answer Key

Q1 (D)

Q2 (D)

Q3 (D)

Q4 (B)

Q5 (B)

Q6 (C)

Q7 (A)

Q8 (B)



Hints & Solutions

Note: scan the QR code to watch video solution

Q1 Video Solution:



Q2 Video Solution:



Q3 Video Solution:



Q4 Video Solution:



Q5 Video Solution:



Q6 Text Solution:

$$Q \rightarrow \vec{V} = \text{constant}$$
$$\vec{E}, \vec{B}$$

Video Solution:



Q7 Video Solution:



Q8 Text Solution:

(B)

Video Solution:



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