

1. When we rub a glass rod with a silk cloth then

- A. glass rod acquires negative charge while silk acquires positive charge
- B. glass rod acquires positive charge while silk acquires negative charges
- C. both glass rod and silk acquire negative charge
- D. both glass rod and silk acquire positive charge

Answer: Option B

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2. If the distance between the two point charges become half then force between them becomes

- A. double
- B. half
- C. four times
- D. remains same

Answer: Option C

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3. The minimum charge on any object cannot be less than

- A.  $1.6 \times 10^{-19} \text{C}$
- B.  $3.2 \times 10^{-19} \text{C}$
- C.  $9.1 \times 10^9 \text{C}$
- D. no definite value exist

Answer: Option A

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4. Electric charge of  $100 \mu\text{C}$  is 13cm apart from another charge  $16.9 \mu\text{C}$  electric force between them is

- A.  $9 \times 10^7 \text{N}$
- B. 900N
- C.  $9 \times 10^5 \text{N}$
- D.  $9 \times 10^6 \text{N}$

Answer: Option B

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5. Electric force between two point charges in air or vacuum is F. If we replace air or vacuum by an insulator (dielectric) of relative permittivity  $\epsilon_r$  the force between the charges will

- A. decrease
- B. increase
- C. remain constant
- D. depends upon composition of

dielectric

Answer: Option A

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6. Two charges are placed at a certain distance. If the magnitude of each charge is doubled the force will become
- A. 1/4th of its original value      B. 1/8th of its original value  
C. 4 times of its original value      D. 8 times of its original value

Answer: Option c

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7. The force per unit charge is know as
- A. electric flux      B. electric intensity  
C. electric potential      D. all of above are same

Answer: Option B

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8. An electric field can deflect
- A. neutrons      B.  $\gamma$ -rays  
C. both glass rod and silk acquire negative charge      D. none

Answer: Option D

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9. An electric charge at rest produces
- A. only a magnetic field      B. only an electric field  
C. neither electric field nor magnetic field      D. both electric and magnetic fields

Answer: Option B

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10. Tick the only wrong statement.
- A. similar charges repel each other      B. dissimilar charges attract each

C. repulsion is the sure test of electrification

other

D. an electrically neutral body is repelled both positively and negatively charged bodies

**Answer:** Option D

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