

## Electrostatics

Sr	Questions	Answers Choice
1	SI unit of electric potential is:	<p>A. Watt</p> <p><b>B. Volt</b></p> <p>C. Coulomb</p> <p>D. Joule</p>
2	The speed of sound in air at 21 °C is:	<p>A. <math>336\text{ms}^{-1}</math></p> <p><b>B. <math>343\text{ms}^{-1}</math></b></p> <p>C. <math>430\text{ms}^{-1}</math></p> <p>D. <math>470\text{ms}^{-1}</math></p>
3	How many tubes or electron guns used in a colour television set:	<p>A. Two</p> <p>B. Four</p> <p>C. Five</p> <p><b>D. Three</b></p>
4	Bats can hear sound of frequency up to:	<p>A. <math>100,000\text{Hz}</math></p> <p>B. <math>25000\text{Hz}</math></p> <p><b>C. <math>120,000\text{Hz}</math></b></p> <p>D. <math>1000\text{Hz}</math></p>
5	The intensity level of whispering is:	<p>A. <math>20\text{ dB}</math></p> <p><b>B. <math>30\text{ dB}</math></b></p> <p>C. <math>40\text{ dB}</math></p> <p>D. <math>50\text{ dB}</math></p>
6	An object gains excess negative charge after being rubbed against another object, which is:	<p>A. Neutral</p> <p><b>B. Negatively charged</b></p> <p>C. Charged</p> <p>D. Either, a,b,and c</p>
7	1 Pico Farad is equal to:	<p>A. <math>10^{-9}\text{F}</math></p> <p><b>B. <math>10^{-12}\text{F}</math></b></p> <p>C. <math>10^{12}\text{F}</math></p> <p>D. <math>10^{-6}\text{F}</math></p>
8	Two uncharged objects A and B are rubbed against each other. When object B is placed near a negatively charged object C, the two objects repel each other. Which of these statements is true about object A.	<p>A. Remains uncharged</p> <p><b>B. Becomes positively charged</b></p> <p>C. Becomes negatively charged</p> <p>D. Unpredicatable</p>
9	Electric potential is a quantity:	<p><b>A. Scalar</b></p> <p>B. Vector</p> <p>C. Base</p> <p>D. All</p>
10	One coulomb is equal to charge of _____ electrons.	<p>A. <math>6.25 \times 10^{-19}</math></p> <p>B. <math>6.25 \times 10^{19}</math></p> <p><b>C. <math>6.25 \times 10^{18}</math></b></p> <p>D. <math>6.25 \times 10^{-18}</math></p>

A. always cross each other  
**B. never cross each other**  
 C. cross each other in the region of

11	Electric field lines:	<p>C. cross each other in the region of strong field</p> <p>D. cross each other in the region of weak field</p>
12	Intensity level of the sound produced by mosquito buzzing is:	<p>A. <math>70\text{ dB}</math></p> <p>B. <math>40\text{ dB}</math></p> <p>C. <math>10\text{ dB}</math></p> <p>D. <math>120\text{ dB}</math></p>
13	Frequency of tuning fork depends upon its ..... of prongs:	<p>A. <math>\text{Weight}</math></p> <p>B. <math>\text{Speed}</math></p> <p>C. <math>\text{Mass}</math></p> <p>D. <math>\text{Distance}</math></p>
14	The coulomb's law is valid for the charges which are:	<p>A. moving and point charges</p> <p>B. moving and non-point charges</p> <p>C. stationary and point charges</p> <p>D. stationary and large size charges</p>
15	If we double the distance between two charges, what will be the change in the force between them?	<p>A. Half</p> <p>B. Double</p> <p>C. One fourth</p> <p>D. Four times</p>
16	The SI unit of electric field intensity is:	<p>A. <math>\text{NC}^{-2}</math></p> <p>B. <math>\text{NC}^{-1}</math></p> <p>C. <math>\text{Ns}</math></p> <p>D. <math>\text{Nm}^{-1}</math></p>
17	The brain of any computer system is:	<p>A. Monitor</p> <p>B. Memory</p> <p>C. CPU</p> <p>D. Control unit</p>
		<p>A. <math>\text{On}</math></p>

18 In case of OR and AND operation, if switches  $s_1$  and  $s_2$  both are open then lamp is:

- A. 

On
- B. 

Off
- C. 

Sometimes on and sometimes off
- D. 

Neither on nor off

19 Coulomb's law is mathematically stated as:

- A.  $F = k \frac{q_1 q_2}{r^3}$
- B.  $F = k \frac{q_1 q_2}{r^2}$
- C.  $F = k \frac{q_1 q_2}{r}$
- D.  $F = k \frac{q_1 q_2}{r^2}$

20 The intensity level of train siren is:

- A. 150 dB
- B. 100 dB
- C. 130 dB
- D. 120 dB