

ECAT Pre General Science Physics Chapter 12 Electrostatics Online Test

Sr	Questions	Answers Choice
1	The earth's potential is taken as	A. Negative B. Positive C. Zero D. Infinite
2	What is the current is a 2 x 10^6 ohm resistor having a potential difference of 2 x 10^3 volts?	A. 10 ⁻¹ A B. 10 ⁻² A C. 10 ⁻⁴ A D. 1 mA
3	The relation V = IR represents	A. Ampere law B. Faraday's law C. Ohm's law D. Len's law
4	Battery is charged in motor cars, which is based on	A. Chemical effect B. Magnetic effect C. Electric effect D. None
5	If the resistance of 2 ohm and 4 ohm are connected in parallel, the equivalent resistance will be	A. 6 ohm B. 4 ohm C. zero ohm D. 1.33 ohm
6	The SI unit of current is	A. watt B. coulomb C. volt D. ampere
7	The statement "the electric force of repulsion or attraction between two point charges is directly proportional to the product of the charges and inversely proportional to square of the distance between them" refer to	A. Coulomb's law B. Gauss's law C. Biot-Sarwat law D. Ampere's law
8	The electric flux is linked with a surface will be maximum when	A. The surface is held parallel to the electric field B. The surface is held perpendicular to the electric field C. The surface makes an angle of 45 ° with the electric field D. All of the above
9	The relation between the charge Q of a parallel plate capacitor and the P.D between its plates is	A. Q=V/C B. Q=C/V C. Q=1/2CV D. Q=CV
10	The electric field due to an infinite long thin wire at a distance R varies as	A. 1/R B. 1/R ² C. R D. R ²
11	The potential difference across each resistance in series combination is	A. same B. different C. zero D. none of these
12	In a building, there are 15 bulbs of 40 watts, 5 bulbs of 100 watts, 5 fans of 80 watts and a heater of 1 kilowatt. The voltage of the electric main is 220 volts. The minimum efficiency of the main fuse of the building will be	A. 0.4 A B. 11.4 A C. 9.8 A D. 10.6 A
13	A 60 W bulb operates on 220 V supply. The current flowing through the bulb is	A. 11/3 A B. 3 A C. 3/11 A D. 6
		A. 3R

A. 3R<span style="color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; text-align: center; background-color:

14	Three resistors of resistance R each are combined in various ways. Which of the following cannot be obtained?	8. 2R/4 Ω C. R/3 D. 2R/3Ω
15	The resistivity of a substance depends upon the	A. length B. mass C. area D. temperature
16	The electric intensity at infinite distance from the point charge will be	A. Infinite B. Positive C. Zero D. Negative
17	If the two charges in Coulomb's law have double distance between them, then electric force	A. Becomes two-fold B. Becomes four-fold C. Remains the same D. None of these
18	A medium of dielectric constant 'K' is introduced between the plates of parallel plate condenser. As a result its capcitance	A. Increase k time B. Decreases k times C. Decreases 1/K times D. Remains unchanged
19	If an electron of charge 'e' is accelerated through a potential difference V., it will acquire energy	A. Ve B. V/e C. e/V D. 2Ve
20	The SI unit of electric flux is	A. Weber B. Nm ² C ⁻¹ C. NmC ⁻¹ D. Nm ⁻² C

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