

## Physics ECAT Pre Engineering Chapter 12 Electrostatics

Sr	Questions	Answers Choice
1	The material in the form of wire or rod or plate which leads the current into or cut of the electrolyte is known as	A. voltmeters B. resistance C. electrode D. current
2	The energy stored in a charge capacitor	A. $\frac{1}{2}CV^2$ B. $\frac{1}{2}C^2V$ C. $\frac{1}{2}C/V^2$ D. None of these
3	The potential difference across the conductors should be maintained constant by connecting the ends of wire to the terminal of a device called a source of	A. power B. current C. resistance D. temperature
4	Electric generators which convert mechanical energy into	A. solar energy B. thermal energy C. kinetic energy D. electrical energy
5	One coulomb per second is equal to	A. One volt B. One ampere C. One hom D. One henry
6	The electric intensity outside the two oppositely charged parallel metal plates is	A. Maximum B. Minimum C. Zero D. Infinite
7	Battery is charged in motor cars, which is based on	A. Chemical effect B. Magnetic effect C. Electric effect D. None
8	If we plot graph between potential difference (V) and current (I) obeying ohm's law, it will give us	A. parabola B. straight line C. hyper bola D. ellipse
9	Magnetic effect at a point caused due to flow a current depend upon the	A. Quantity of current B. Distance from current C. Both the quantity of current and distance from current element D. None of the all
10	The speed of randomly moving electrons depends upon	A. pressure B. volume C. temperature D. mass
11	Some charge is being given to a conductor. Then its potential	A. Is maximum at surface B. Is maximum at centre C. Is remain same throughout the conductor D. Is maximum somewhere between surface and centre
12	Heating effect caused by an electric circuit is written	A. $H = I^2Rt$ B. $H = I^2R$ C. $H = IR^2t$ D. $H = IR^2$
13	A metal plate of thickness half the separation between the capacitor plates of capacitance C is inserted. The new capacitance is	A. C B. C/2 C. Zero D. 2C
14	The relation $V = IR$ represents	A. Ampere law B. Faraday's law C. Ohm's law D. Len's law
		A. 60 W bulb

15	If two bulbs one of 60 W and other of 100 W are connected in parallel, then which one of the following will flow more?	<p>B. 100 W bulb  C. Both equally  D. None of these</p>
16	Three resistors of resistance R each are combined in various ways. Which of the following cannot be obtained?	<p>A. <math>3R</math>  B. <math>2R/4</math>  C. <math>R/3</math>  D. <math>2R/3</math></p>
17	A heater coil rated at (1000 W - 200 V) is connected to 110 volt line. What will be the power consumed?	<p>A. 200 W  B. 302.5  C. 250 W  D. 350 W</p>
18	When an electron is accelerated through a P.D. of an one volt, it will acquire energy equal to	<p>A. One joule  B. One erg  C. One electron volt  D. None of these</p>
19	If the resistance of 2 ohm and 4 ohm are connected in parallel, the equivalent resistance will be	<p>A. 6 ohm  B. 4 ohm  C. zero ohm  D. 1.33 ohm</p>
20	Electric potential of earth is taken to be zero because the earth is good	<p>A. Semiconductor  B. Conductor  C. Insulator  D. Dielectric</p>