ECAT Pre General Science Physics Chapter 13 Current Electricity

Sr	Questions	Answers Choice
1	Electric flux is:	A. Cross product of two vector <o:p></o:p> B. Dot product of two vectors<o:p></o:p> C. A vector quantity<o:p></o:p> D. A scalar quantity<o:p></o:p> E. Both (B) and (D)<o:p></o:p>
2	Electric field lines emerge from the charge in:	A. One dimension<o:p></o:p> B. Two dimensions<o:p></o:p> C. Three dimensions<o:p></o:p> D. Four dimensions<o:p></o:p> E. None of them<o:p></o:p>
3	The inkjet printer ejects a thin stream of:	A. Water<o:p></o:p> B. Oil<o:p></o:p> C. Ink<o:p></o:p> D. Any of above<o:p></o:p> E. <span style="font-

		size:12.0pt;line-height:107%;font-family: "Times New Roman","serif"">None of these<o:p></o:p>
4	An example of photoconductor is:	A. Boron<o:p></o:p> B. Carbon<o:p></o:p> C. Iron<o:p></o:p> D. Aluminum<o:p></o:p> E. Selenium<o:p></o:p>
5	An important part of photocopier is:	A. Toner cartridge<o:p></o:p> B. Deflection plates <o:p></o:p> C. Charging electrode<o:p></o:p> D. Print head<o:p></o:p> E. None of these<o:p></o:p>
6	The passage of current is accompanied by a magnetic field in the surrounding space:	A. Always accompanied<o:p></o:p> B. Sometimes accompanied<o:p></o:p> C. Never accompanied<o:p></o:p> D. Any of above <o:p></o:p> E. None of these<o:p></o:p>
		A. Electrons B. Positive ions

7	In gases, the charge carriers are:	C. Negative ions D. Both A and C E. Both A and B
8	The current that flows through the coil of a motor causes:	A. Its shaft to revolve<o:p></o:p> B. Its brushes to rotate<o:p></o:p> C. Motor to move<o:p></o:p> D. Its shafts to rotate<o:p></o:p> E. None of these<o:p></o:p>
9	Gaussian surface is always:	A. <span style="font-size:12.0pt;line-height:107%;font-family:"Times New Roman","serif";mso-fareast-font-family:"Times New Roman";mso-fareast-theme-font: minor-fareast">Rectangular<o:p></o:p> B. <span style="font-size:12.0pt;line-height:107%;font-family:"Times New Roman","serif";mso-fareast-font-family:"Times New Roman";mso-fareast-theme-font: minor-fareast">Spherical<o:p></o:p> C. <span style="font-size:12.0pt;line-height:107%;font-family:"Times New Roman","serif";mso-fareast-font-family:"Times New Roman";mso-fareast-theme-font: minor-fareast">Cylindrical<o:p></o:p> D. <span style="font-size:12.0pt;line-height:107%;font-family:"Times New Roman","serif";mso-fareast-font-family:"Times New Roman";mso-fareast-theme-font: minor-fareast">Box shape<o:p></o:p> E. <span style="font-size:12.0pt;line-height:107%;font-family:"Times New Roman","serif";mso-fareast-font-family:"Times New Roman";mso-fareast-theme-font: minor-fareast">Any of these<o:p></o:p>
10	The flux through a closed surface depends upon:	A. <span style="font-size:12.0pt;line-height:107%;font-family:"Times New Roman","serif";mso-fareast-font-family:"Times New Roman";mso-fareast-theme-font: minor-fareast">Shape of geometry of the closed surface<o:p></o:p> B. <span style="font-size:12.0pt;line-height:107%;font-family:"Times New Roman","serif";mso-fareast-font-family:"Times New Roman";mso-fareast-theme-font: minor-fareast">Charge enclosed<o:p></o:p> C. <span style="font-size:12.0pt;line-height:107%;font-family:"Times New Roman","serif";mso-fareast-font-family:"Times New Roman";mso-fareast-theme-font: minor-fareast">Nature of the medium<o:p></o:p> D. <span style="font-size:12.0pt;line-height:107%;font-family:

		"Times New Roman","serif";mso-fareast-font-family:"Times New Roman";mso-fareast-theme-font: minor-fareast">Both (A) and (B)<o:p></o:p> E. <span style="font-size:12.0pt;line-height:107%;font-family: "Times New Roman","serif";mso-fareast-font-family:"Times New Roman";mso-fareast-theme-font: minor-fareast">Both (B) and (C)<o:p></o:p>
11	The effects of bends in a wire on its electrical resistance are:	A. Zero<o:p></o:p> B. Much larger<o:p></o:p> C. Larger<o:p></o:p> D. Smaller<o:p></o:p> E. None of these<o:p></o:p>
12	The charge carries in the electrolyte are:	A. Positive ions<o:p></o:p> B. Negative ions<o:p></o:p> C. Either (A) or (B)<o:p></o:p> D. Both (A) and (B)<o:p></o:p> E. Neither (A) nor (B)<o:p></o:p>
13	In a metal, the valence electrons are:	A. Attached to individual atoms B. Not attached to individual atoms C. Free to move within the metal D. Both A and B E. Both A and C
14	The obvious effect/s of current is/are:	A. Heating effect<o:p></o:p> B. Magnetic effect<o:p></o:p> C. Chemical effect<o:p></o:p> D. Both (C) and

		(B)<o:p></o:p> E. All of these
15	When two spherical conducting balls at different potentials are joined by a metallic wire, after some time:	A. Both the conductors are at the same potential<o:p></o:p> B. Potential difference across the conductors remain constant<o:p></o:p> C. Potential difference across the conductors becomes zero<o:p></o:p> D. Both (A) and (B)<o:p></o:p> E. Both (A) and (C)<o:p></o:p>
16	The charge carriers in an electrolyte are	A. Positive ions B. Negative ions C. Either A or B D. Both A and B E. Neither A nor B
17	An ideal voltmeter has:	A. Zero resistance B. Small resistance C. Large resistance D. Infinite resistance E. Both A and B
18	Flux through a closed surface of any shape and flux through the surface of a sphere drawn around a charge are:	A. Different<o:p></o:p> B. Same<o:p></o:p> C. Such that it is greater in the first case<o:p></o:p> D. Such that it is greater in the second case<o:p></o:p> E. <span style="font-size:12.0pt;line-height:107%;font-family: "Times New Roman","serif";mso-fareast-font-family:"Times New Roman";mso-fareast-theme-font: minor-fareast">None of these<o:p></o:p>
		A. The ends of the wire only<o:p></o:p> B. Mid points of the wire only<o:p></o:p> C. <p class="MsoNormal" style="text-

19	If the ends of a wire are connected to a battery an electric field E will be set up at:	align:justify">Every point within the wire<o:p></o:p> D. At nodes only<o:p></o:p> E. Both (B) and (D)<o:p></o:p>
20	In case of two identical charges placed certain distance apart, the electric field lines are:	A. Straight lines<o:p></o:p> B. Sine curves<o:p></o:p> C. Curved<o:p></o:p> D. Both (A) and (B)<o:p></o:p> E. None of these<o:p></o:p>