

ECAT Pre General Science Physics Chapter 18 Electronics

Sr	Questions	Answers Choice
1	In the forward biases situation, the current flowing across the p-n junction is a few:	A. amperes B. Milli amperes C. Micro amperes D. Pico amperes E. None of these
2	In a transistor, collector current is controlled by	A. Collector voltage B. Base current C. Collector resistance D. All of the above
3	Conversion of A.C. into D.C. is called:	A. Rectification B. Amplification C. Electric induction D. Magnetic induction E. None of these
4	To make an LED, it is imprecacticable to use:	A. Silicon B. Gallium arsenide C. Gallium arsenide phosphide D. Iron E. Both (B) and (C)
5	In an N-type silicon, which of the following statement is true	A. Electrons are majority carriers and trivalent atoms are the dopants B. Electrons are minority carriers and pentavalent atoms are the dopants C. Holes are minority carriers and pentavalent atoms are the dopants D. Holes are majority carriers and trivalent atoms are the dopants
6	Most of the electrons in the base of an NPN transistor flow	A. Out of the base lead B. Into the collector C. Into the emit D. Into the base supply
7	A potential barrier of 0.7V exists across p-n junction made from:	A. Germanium B. Silicon C. Arsenic D. Gallium E. Indium
8	The concept of electric field theory was introduced by	A. Michael Faraday B. Newton C. Dalton D. Kepler E. Einstein
9	Electric field lines emerge from the charges in	A. One dimension B. Two dimensions C. Three dimensions D. Four dimensions E. None of these
10	Silicon is one of the mot commonly used:	A. onductor B. Dielectric C. Insulator D. Semiconduction E. Both (B) and (C)
11	Majority charge carriers in the p-region of p-n junction are:	A. electrons B. positrons C. Holes D. Neutrons E. None of these
12	To turn the transistor OFF, the base current is set:	A. At maximum value B. At zero C. Either (A) or (B) D. All are correct E. None of correct
13	Electric field lines	A. Intersect each other B. Are always parallel

13	Electric lines of force	<ul style="list-style-type: none"> C. Are always anti-parallel D. Never intersect E. None of these
14	Crystal of germanium or silicon in its pure form at absolute zero acts as:	<ul style="list-style-type: none"> A. A conductor B. A semiconductor C. an insulator D. Both (A) and (C) E. Both (A) and (B)
15	The value of relative permittivity of different dielectrics are	<ul style="list-style-type: none"> A. Equal B. Different C. Greater than one D. Smaller than one E. Both B and C
16	The intensity at a point due to a charge is inversely proportional to	<ul style="list-style-type: none"> A. Amount of charge B. Size of the charge C. Distance between charge and the point D. Square of the distance from the charge E. None of these
17	The electric field lines start from	<ul style="list-style-type: none"> A. Positive charge B. Negative charge C. Either A or B D. Neutron E. An atom
18	To display a digit of EIGHT, the number of ON LED'S are:	<ul style="list-style-type: none"> A. Two B. Three C. Five D. Seven E. Eight
19	In describing function of digital systems, 1 represents:	<ul style="list-style-type: none"> A. Closed switch B. True Statement C. Lighted bulb D. Only (B) and (C) E. All are true
20	Op-amp has been discussed as comparator of:	<ul style="list-style-type: none"> A. Distances B. Voltages C. Velocities D. Magnetic fields E. Both (A) and (C)