

Physics ECAT Pre Engineering Online Test

Sr	Questions	Answers Choice
1	Light year is a unit of	A. Time B. Distance C. Velocity D. Intensity of light
2	Silicon can be obtained from	A. Lead B. Uranium C. An isotope of oxygen D. Sand
3	The values 1 and 0 are designated as:	A. Continuous values B. Binary values C. Boolean values D. Decimal values E. Either (B) and (C)
4	The value of LDR depends upon intensity of:	A. Sound falling on it B. Current passing through it C. Magnetic field surrounding it D. Light falling on it E. Non of these
5	In describing function of digital systems, 1 represents:	A. Closed switch B. True Statement C. Lighted bulb D. Only (B) and (C) E. All are true
6	Which of the following is most suitable as the core of transformer	A. Soft iron B. Alinco C. Steel D. None of these
7	The practical application of the phenomenon of Mutual induction is	A. Transformers B. Generator C. Motor D. All of these
8	Inverter is the name given to:	A. NOT gate B. OR gate C. NOR gate D. AND gate E. XOR gate
9	A device which converts Electrical energy into mechanical energy is called as	A. Transformer B. Generator C. Motor D. All of these
10	A.C. can be measure with the help of	A. Nuclear effect B. Magnetic effect C. Chemical effect D. Heating effect
11	An LED emits light when it is:	A. Forward biased B. Reverse biased C. Operated without battery D. Operated with heat source E. None of these
12	Split rings act as	A. Vibrator B. Resistor C. Motor D. Commulator
13	The work is stored in the inductor as	A. Electric potential energy B. Elastic potential energy C. Magnetic energy D. Absolute potential energy
14	.Depletion region contains:	A. Protons B. Positive ions C. Negative ions D. Both (B) and (C)

		E. Both (A) and (C)
15	Self induced e.m.f. is also called	A. Motional e.m.f. B. Thermistor C. Electrostatic induction D. Back e.m.f
16	A potential barrier of 0.7V exists across p-n junction made from:	A. Germanium B. Silicon C. Arsenic D. Gallium E. Indium
17	The ratio of average e.m.f in the coil to the time rate of change of current in the same coil is called	A. Mutual induction B. Mutual inductance C. Capacitance D. Self inductance
18	Depletion region contains:	A. Protons B. Positive ions C. Negative ions D. Both (B) and (C) E. Both (A) and (C)
19	Lenz's law deals with the	A. Magnitude of induced current B. Magnitude of induced e.m.f C. Direction of induced e.m.f D. Direction of induced current
20	The motional e.m.f depends upon the	A. Length of a conductor B. Strength of a magnet C. Speed of the conductor D. All of the above
21	Back emf is produced due to	A. Self induction B. Mutual induction C. A.C D. Lenz's law
22	The SI unit of magnetic induction is	A. Weber B. Weber/meter C. Henry D. Tesla
23	Computer chips are made from:	A. Iron B. Silicon C. Helium D. Strontium E. Aluminium
24	Transformer is used to	A. Increase alternating current B. Increase d.c voltage C. Increase & Decrease emf D. All answers are right
25	Lenz's law is the consequence of	A. Mass B. Energy conservation C. Momentum conservation D. Charge
26	The change of magnetic flux through a circuit will produce	A. Magnetic Field B. Electric Field C. emf D. a.c
27	Whenever a covalent bond breaks, it creates:	A. An electron B. A hole C. An electron-hole pair D. A positron E. All of these
28	Which of the following substances has got positive temperature coefficient of resistance?	A. Carbon B. Germanium C. Silicon D. Aluminium E. None of these
29	A thermistor is a resistor which is:	A. Light Sensitive B. Heat Sensitive C. Sound Sensitive D. All of these E. None of these
30	Thermistors are prepared under	A. High pressure and low temperature B. High pressure and high temperature C. Low pressure and low temperature

temperature
D. Low pressure and high temperature
E. None of these
