

Electromagnetism

Sr	Questions	Answers Choice
1	Changing magnetic field in a closed circuit can induce:	<p>A. e.m.f</p> <p>B. Electric current</p> <p>C. Force</p> <p>D. Both A and B</p>
2	Which animal have ability to move his eye lens:	<p>A. Snake</p> <p>B. Fish</p> <p>C. Ant</p> <p>D. Tiger</p>
3	The line which passes through pole of the mirror and center of curvature is called principal:	<p>A. Axis</p> <p>B. Focus</p> <p>C. Line</p> <p>D. None of these</p>
4	In electric motor, the brushes are made of:	<p>A. Lead</p> <p>B. Graphite</p> <p>C. Iron</p> <p>D. Wood</p>
5	When we heat the metal at high temperature they emit:	<p>A. Holes</p> <p>B. Protons</p> <p>C. Neutrons</p> <p>D. Electrons</p>
6	A converging lens becomes a magnifying glass when an object is placed:	<p>A. Outside of focal length</p> <p>B. Inside the focal length</p> <p>C. Equal of focal length</p> <p>D. At double of focal length</p>
7	Iron core is used in tranformer to:	<p>A. Enhance the flux</p> <p>B. Decrease the flux</p> <p>C. Keep flux the same</p> <p>D. botha a and b</p>
8	Totally reflecting prism is used in:	<p>A. Periscope</p> <p>B. Binoculars</p> <p>C. Periscope and binocular</p> <p>D. Telescope</p>
9	The number of lines of force in a magnetic field depends upon.	<p>A. Shape of coil</p> <p>B. Sixe of coil</p> <p>C. Magnet</p> <p>D. Strength of field</p>
10	What is the direction of the magnetic field lines inside a bar magnet?	<p>A. From north pole to south pole</p> <p>B. From south pole to north pole</p> <p>C. From side to side</p> <p>D. There are no magnetic field lines.</p>

11	The presence of a magnetic field can be detected by a	A. small mass B. Stationary positive charge C. Stationary negative charge D. Magnetic compass
12	The voltage is decreased by:	A. Step-up transformer B. Step-down transformer C. A.C. generator D. D.C. Motor
13	The step-up transformer	A. Increases the input current B. Increase the input voltage C. Has more turns in the primary D. Has less turns in the secondary coil
14	A transformer has $N_p = 100$ and $N_s = 500$, if 6 volt D.C is applied across its primary, the induced voltage.	A. 0 V B. 30 V C. 45 V D. 60 V
15	When you rub a plastic rod against your hair several times and put it near some bits of paper, the pieces of papers are attracted towards it. What does this observation indicate:	A. The rod and the paper are oppositely charged B. The rod acquires a positive charge C. The rod and the paper have the same charges D. The rod acquires a negative charge
16	Magnetic effect of electric current was first discovered by:	A. Faraday B. Ampere C. Volta D. Lenz
17	When a current carrying conductor is placed in magnetic field at right angle to it. The direction of force acting upon it is:	A. The same as direction of field B. Opposite the direction of field C. Makes an angle of 45° with the current D. At right angle to both the field and the current.
18	Bouncing back of light after striking the surface is called:	A. Refraction B. Reflection C. Diffraction D. Interference
19	The direction of induced e.m.f. in a circuit is in accordance with conservation of.	A. Mass B. Charge C. Momentum D. Energy
20	The output of a two input NOR gate is 1 when:	A. A is 1 and B is 0 B. A is 0 and B is 1 C. Both a and b are 0 D. Both a and b are 1