

Electromagnetism

Sr	Questions	Answers Choice
1	The number of lines of force in a magnetic field depends upon.	<p>A. Shape of coil B. Sixe of coil C. Magnet D. Strength of field</p>
2	Which statement is true about the magnetic poles?	<p>A. Unlike poles repel B. Like poles attract C. Magnetic poles do not effect each other D. A single magnetic pole does not exist</p>
3	Two uncharged objects a and b are rubbed against each other. When object b is placed near a negatively charged object c, the two objects repel each other. Which of these statements is true about object a:	<p>A. <code><p class="MsoNormal">Remains uncharged</o:p></o:p></p></code> B. <code><p class="MsoNormal">Becomes positively charged</o:p></o:p></p></code> C. <code><p class="MsoNormal">Becomes negatively charged</o:p></o:p></p></code> D. <code><p class="MsoNormal">Unpredictable</o:p></o:p></p></code></p>
4	In C.R.O grid is always connected with potential:	<p>A. <code><p class="MsoNormal">Negative</o:p></o:p></p></code> B. <code><p class="MsoNormal">Positive</o:p></o:p></p></code> C. <code><p class="MsoNormal">High positive</o:p></o:p></p></code> D. <code><p class="MsoNormal">Zero positive</o:p></o:p></p></code></p>
5	According to coulomb's law, what happens to the attraction of two oppositely charged objects as their distance of separation increases:	<p>A. <code><p class="MsoNormal">Increases</o:p></o:p></p></code> B. <code><p class="MsoNormal">Decreases</o:p></o:p></p></code> C. <code><p class="MsoNormal">Remains uncharged</o:p></o:p></p></code> D. <code><p class="MsoNormal">Cannot be determined</o:p></o:p></p></code></p>
6	Totally reflecting prism is used in:	<p>A. <code><p class="MsoNormal">Periscope</o:p></o:p></p></code> B. <code><p class="MsoNormal">Binoculars</o:p></o:p></p></code> C. <code><p class="MsoNormal">Periscope and binocular</o:p></o:p></p></code> D. <code><p class="MsoNormal">Telescope</o:p></o:p></p></code></p>
7	In totally reflecting prism one angle is of 90°, and other two angles are of:	<p>A. <code><p class="MsoNormal">30°,30°</o:p></o:p></p></code> B. <code><p class="MsoNormal">45°,90°</o:p></o:p></p></code> C. <code><p class="MsoNormal">45°,45°</o:p></o:p></p></code> D. <code><p class="MsoNormal">40°,40°</o:p></o:p></p></code></p>
8	Which device is used to increases / decreases A.C Voltage?	<p>A. Electric motor B. Transformer C. A.C Generator D. Solenoid</p>
9	If the current in a wire which is placed perpendicular to a magnetic field increases, the force on the wire.	<p>A. Increases B. Decreases C. Remains the same D. Will be zero</p>
10	The magnetic field of a solenoid resembles as:	<p>A. Iron wire B. U-shape magnet C. Bar magnet D. Point charge.</p>
11	Electric motor converts electrical energy into:	<p>A. Chemical energy B. Solar energy C. Heat energy D. Mechanical energy</p>

12	The refracted light striking to the side of prism is called:	<p>A. Refracted ray</p> <p>B. Incident ray</p> <p>C. Reflected ray</p> <p>D. Emergent ray</p>
13	In D.C. motor split rings are made of:	<p>A. Steel</p> <p>B. Carbon</p> <p>C. Copper</p> <p>D. Iron</p>
14	The minimum value of angle of deviation is called:	<p>A. Minimum angle</p> <p>B. Incident angle</p> <p>C. Angle of minimum deviation</p> <p>D. None of these</p>
15	A.C generator works on the principle of:	<p>A. Electrostatic induction</p> <p>B. Electromagnetic induction</p> <p>C. Law of gravitation</p> <p>D. Third law of motion</p>
16	An object gains excess negative charge after being rubbed against another object, which is:	<p>A. Neutral</p> <p>B. Negatively charged</p> <p>C. Positively charged</p> <p>D. Either, a, b or c</p>
17	One micro coulomb charge is equal to:	<p>A. 10^{-3} C</p> <p>B. 10^3 C</p> <p>C. 10^6 C</p> <p>D. 10^{-6} C</p>
18	In totally reflecting prism one angle is of:	<p>A. 45°</p> <p>B. 90°</p> <p>C. 180°</p> <p>D. 120°</p>
19	According to Fleming's left hand rule the direction of force on the conductor is given by:	<p>A. Thumb</p> <p>B. Fore finger</p> <p>C. Middle finger</p> <p>D. None of these</p>
20	Which part of a D.C. motor reverses the direction of current through the coil every half-cycle.	<p>A. The armature</p> <p>B. The commutator</p> <p>C. The brushes</p> <p>D. The slip rings</p>