

## Electromagnetism

| Sr | Questions  | Answers Choice   |
|----|--|--|
| 1  | If the current in a wire which is placed perpendicular to a magnetic field increases, the force on the wire.   | <p>A. Increases</p> <p>B. Decreases</p> <p>C. Remains the same</p> <p>D. Will be zero</p>  |
| 2  | The turn ratios of a transformer is 10. It means.  | <p>A. <math>I_s = 10I_p</math></p> <p>B. <math>N_s = N_p</math></p> <p>C. <math>N_s = 10 N_p</math></p> <p>D. <math>V_s = V_p / 10</math></p>            |
| 3  | George Boole invented:   | <p>A. Boolean algebra</p> <p>B. Arithmetic algebra</p> <p>C. Mean algebra</p> <p>D. Geometry</p>   |
| 4  | The lines will be in the form of concentric circles, if conductor is:  | <p>A. Circular</p> <p>B. Straight</p> <p>C. Solenoid</p> <p>D. None of these</p>   |
| 5  | 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>  |
| 6  | In A.C. generator flux will be zero if coil is to the field.   | <p>A. 90°</p> <p>B. 45°</p> <p>C. Parallel</p> <p>D. Inclined</p>  |
| 7  | A transformer has 100 turns in its primary and 500 turns in secondary coil. If 6 volts D.C is applied across its primary, the voltage induced across its secondary coil will be: | <p>A. 0 volt</p> <p>B. 30 volts</p> <p>C. 45 volts</p> <p>D. 60 volts</p>  |
| 8  | In totally reflecting prism one angle is of:   | <p>A. 45°</p> <p>B. 90°</p> <p>C. 180°</p> <p>D. 120°</p>  |
| 9  | 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> |
| 10 | According to coulomb's law, what happens to the attraction of two oppositely charged objects as their distance of separation increases:  | <p>A. Increases</p> <p>B. Decreases</p> <p>C. Remains unchanged</p> <p>D. Cannot be determined</p>   |
| 11 | Eight bits combine to form:  | <p>A. A byte</p> <p>B. Megabyte</p> <p>C. ...</p>  |

|    |  |  |
|----|--|--|
|    |  | <p>class="MsoNormal"&gt;Kilobyte&lt;o:p&gt;&lt;/o:p&gt;&lt;/p&gt;</p> <p>D. &lt;p class="MsoNormal"&gt;Gigabyte&lt;o:p&gt;&lt;/o:p&gt;&lt;/p&gt;</p>   |
| 12 | 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:                           | <p>A. &lt;p class="MsoNormal"&gt;The rod and the paper are oppositely charged&lt;o:p&gt;&lt;/o:p&gt;&lt;/p&gt;</p> <p>B. &lt;p class="MsoNormal"&gt;The rod acquires a positive charge&lt;o:p&gt;&lt;/o:p&gt;&lt;/p&gt;</p> <p>C. &lt;p class="MsoNormal"&gt;The rod and the paper have the same charges&lt;o:p&gt;&lt;/o:p&gt;&lt;/p&gt;</p> <p>D. &lt;p class="MsoNormal"&gt;The rod acquires a negative charge&lt;o:p&gt;&lt;/o:p&gt;&lt;/p&gt;</p> |
| 13 | The number of lines of force in a magnetic field depends upon.   | <p>A. Shape of coil</p> <p>B. Size of coil</p> <p>C. Magnet</p> <p>D. Strength of field</p>  |
| 14 | Which device has two coils, primary and secondary?   | <p>A. D.C. Motor</p> <p>B. Transformer</p> <p>C. A.C. generator</p> <p>D. a and b</p>  |
| 15 | When an electric current passes through a conductor, which field is produced around it?  | <p>A. Electric field</p> <p>B. Magnetic field</p> <p>C. Gravitational field</p> <p>D. Electrostatic field</p>  |
| 16 | Which animal have ability to move his eye lens:  | <p>A. &lt;p class="MsoNormal"&gt;Snake&lt;o:p&gt;&lt;/o:p&gt;&lt;/p&gt;</p> <p>B. &lt;p class="MsoNormal"&gt;Fish&lt;o:p&gt;&lt;/o:p&gt;&lt;/p&gt;</p> <p>C. &lt;p class="MsoNormal"&gt;Ant&lt;o:p&gt;&lt;/o:p&gt;&lt;/p&gt;</p> <p>D. &lt;p class="MsoNormal"&gt;Tiger&lt;o:p&gt;&lt;/o:p&gt;&lt;/p&gt;</p>   |
| 17 | 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>  |
| 18 | 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>   |
| 19 | D.C. motor converts.   | <p>A. Mechanical energy into electrical energy</p> <p>B. Mechanical energy into chemical energy</p> <p>C. Electrical energy into mechanical energy</p> <p>D. Electrical energy into chemical energy</p>  |
| 20 | 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. &lt;p class="MsoNormal"&gt;Remains uncharged&lt;o:p&gt;&lt;/o:p&gt;&lt;/p&gt;</p> <p>B. &lt;p class="MsoNormal"&gt;Becomes positively charged&lt;o:p&gt;&lt;/o:p&gt;&lt;/p&gt;</p> <p>C. &lt;p class="MsoNormal"&gt;Becomes negatively charged&lt;o:p&gt;&lt;/o:p&gt;&lt;/p&gt;</p> <p>D. &lt;p class="MsoNormal"&gt;Unpredictable&lt;o:p&gt;&lt;/o:p&gt;&lt;/p&gt;</p>  |