# Electromagnetism

| Sr | Questions | Answers Choice |
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| 1 | D.C. motor converts. | A. Mechanical energy into electrical energy<br>B. Mechanical energy into chemical energy<br>C. Electrical energy into mechanical energy<br>D. Electrical energy into chemical energy |
| 2 | The lines will be in the form of concentric circles, if conductor is: | A. Circular<br>B. Straight<br>C. Solenoid<br>D. None of these |
| 3 | If current is flowing from bottom end to the top end in a wire, according to right hand rule the direction of line of forces would be: | A. Anti-clock wise<br>B. Clock wise<br>C. Left and Right<br>D. Along the conductor. |
| 4 | 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<o:p></o:p> <br>B. The rod acquires a positive charge<o:p></o:p> <br>C. The rod and the paper have the same charges<o:p></o:p> <br>D. The rod acquires a negative charge<o:p></o:p> |
| 5 | When did Michael Faraday discover Electromagnetic induction? | A. 1841<br>B. 1831<br>C. 1821<br>D. 1811 |
| 6 | The ray of light after reflection from concave mirror passes through: | A. Centre<o:p></o:p> <br>B. Principal focus<o:p></o:p> <br>C. Pole<o:p></o:p> <br>D. Radius<o:p></o:p> |
| 7 | Totally reflecting prism is used in: | A. Periscope<o:p></o:p> <br>B. Binoculars<o:p></o:p> <br>C. Periscope and binocular<o:p></o:p> <br>D. Telescope<o:p></o:p> |
| 8 | 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<br>B. Opposite the direction of field<br>C. Makes an angle of 45<sup>o</sup>with the current<br>D. At right angle to both the field and the current. |
| 9 | 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: | A. Remains uncharged<o:p></o:p> <br>B. Becomes positively charged<o:p></o:p> <br>C. Becomes negatively charged<o:p></o:p> <br>D. Unpredictable<o:p></o:p> |

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| 10 | In totally reflecting prism one angle is of 90°, and other two angles are of: | A. 30°,30°<o:p></o:p> <br>B. 45°,90°<o:p></o:p> <br>C. 45°,45°<o:p></o:p> <br>D. 40°,40°<o:p></o:p> |
| 11 | The true ratio of a transformer is 10. It means: | A. Vs = 10Vp<br>B. Ns = Np/10<br>C. Ns = 10NP<br>D. VS= Vp/10 |
| 12 | The value of refractive index of water is: | A. 2.33<o:p></o:p> <br>B. 1.36<o:p></o:p> <br>C. 1.33<o:p></o:p> <br>D. 1.39<o:p></o:p> |
| 13 | Eight bits combine to form: | A. A byte<o:p></o:p> <br>B. Megabyte<o:p></o:p> <br>C. Kilobyte<o:p></o:p> <br>D. Gigabyte<o:p></o:p> |
| 14 | The coil of a transformer which is connected to A.C is called: | A. Primary coil<br>B. Secondary coil<br>C. Field coil<br>D. Armature coil |
| 15 | In C.R.O grid is always connected with potential: | A. Negative<o:p></o:p> <br>B. Positive<o:p></o:p> <br>C. High positive<o:p></o:p> <br>D. Zero positive<o:p></o:p> |
| 16 | Iron core is used in tranformer to: | A. Enhance the flux<br>B. Decrease the flux<br>C. Keep flux the same<br>D. botha a and b |
| 17 | Which part of a D.C. motor reverses the direction of current through the coil every half-cycle. | A. The armature<br>B. The commutator<br>C. The burshes<br>D. The slip rings |
| 18 | When an electric current passes through a conductor, which field is produced around it? | A. Electric field<br>B. Magnetic field<br>C. Gravitational field<br>D. Electrostatic field |
| 19 | A current carrying conductor produces a field around it is called: | A. Electric field<br>B. Magnetic field<br>C. Both a and b<br>D. None of these |
| 20 | The number of lines of force in a magnetic field depends upon. | A. Shape of coil<br>B. Sixe of coil<br>C. Magnet<br>D. Strength of field |