

SLIP TEST- 12  
CHAPTER- 12 : ELECTRO MAGNETISM

Name:..... Section:..... Roll No:..... Max.Marks:20

**I. Answer the following questions. Each carries four marks. 2 x 4 = 8 M**

- 1) Explain the working of electric motor with a neat diagram.
- 2) How can you verify that a current carrying wire produces a magnetic field with the help of an experiment?

**II. Answer the following questions briefly. Each carries two marks. 2 x 2 = 4 M**

- 3) Write any two applications of Faraday's law of induction in daily life.
- 4) Write differences between motor and generator.

**III. Answer the following in one or two sentences. Each carries one marks. 2 x 1 = 2 M**

- 5) State Lenz's law.
- 6) Are the magnetic field lines closed?

**IV. Choose the correct choice and write down in the given brackets. 6 x 1 = 6 M**

7) Which converts electrical energy into mechanical energy [    ]

- A. Motor                      B. Battery                      C. Generator                      D. Switch

8) The magnetic force on a current carrying wire placed in uniform magnetic field if the wire is oriented perpendicular to magnetic field, is ..... [    ]

- A. 0                      B.  $ILB$                       C.  $2ILB$                       D.  $\frac{1}{2} ILB$

9) Compass needle always shows ..... Directions of earth. [    ]

- A. North                      B. South                      C. North and south                      D. either North or South

10) Symbol of S.I. unit of magnetic field induction is ..... [    ]

- A. T                      B.  $\Omega$                       C. V                      D. A

11) ..... Observed electro magnetism first. [    ]

- A. Oersted                      B. Ohm                      C. Lenz                      D. Faraday

12) Which converts chemical energy into electrical energy [    ]

- A. Motor                      B. Battery                      C. Generator                      D. Switch