# ECAT Pre General Science Physics Chapter 14 Electromagnetism

| Sr | Questions | Answers Choice |
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| 1 | if the field is directed along the normal to the area, then flux is: | A. Maximum<o:p></o:p> <br>B. Equal to zero<o:p></o:p> <br>C. Equal to BA<o:p></o:p> <br>D. Minimum<o:p></o:p> <br>E. Both (A) and (C)<o:p></o:p> |
| 2 | At a given instant, a photon moves in +x direction in a region where there magnetic field in -z direction. The magnetic force on the proton will be the: | A. -y direction<br>B. +y direction<br>C. +z direction<br>D. -z direction<br>E. None of these |
| 3 | When current passes through a solenoid coil, it behaves like a | A. loop<br>B. circle<br>C. bar magnet<br>D. none of these |
| 4 | When the charged particle is projected at right angles to the field, then experienced by it will be: | A. Maximum<br>B. Zero<br>C. qvB<br>D. Both (A) and (B)<br>E. Both (A) and (C) |
| 5 | In a moving coil galvanometer, the deflecting couple depends upon | A. area of the coil<br>B. number of turns of coil<br>C. value of magnetic field<br>D. all of the above |
| 6 | A resistance used in galvanometer to make it voltmeter is called | A. shunt resistance<br>B. high resistance<br>C. zero resistance<br>D. none of these |
| 7 | The SI unit of magnetic flux is | A. NmA<sup>-2</sup><br>B. NmA<sup>-1</sup><br>C. NAm<sup>-1</sup><br>D. Nm<sup>2</sup>A<sup>-1</sup> |
| 8 | The most suitable material for permanent magnet is | A. cobalt<br>B. iron<br>C. steel<br>D. alaminium |
| 9 | The force experienced by a single charge carrier moving with velocity 'v' i magnetic field of strength 'B' is given by | A. F =q(v/B)<br>B. F=q<sup>2</sup>(v x B)<br>C. F=q(v x B)<br>D. F= vx B |
| 10 | The SI unit of magnetic flux is. | A. weber<br>B. Nm<sup>-1</sup>A<sup>-1</sup><br>C. tesla<br>D. gauss |
| 11 | In a straight current carrying conductor, the direction of magnetic field can be found by | A. right hand rule<br>B. left hand rule<br>C. head to tail rule |

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| | found by | C. head to tail rule<br>D. none of these |
| 12 | Tesla is the unit of | A. Magnetic induction or flux density<br>B. Magnetic flux<br>C. Self inductance<br>D. None of these |
| 13 | In order to make a voltmeter, high resistance is connected with galvanometer, in | A. perpendicular<br>B. may be paralled or pendicular<br>C. series<br>D. none of these |
| 14 | 'K' is the proportionality constant of force experienced by conductor. What is the value of 'K' in SI units? | A. 0<br>B. 1<br>C. 0.5<br>D. -1 |
| 15 | The magnetic field inside a solenoid can be increased by: | A. Increasing n<br>B. Decreasing I<br>C. Increasing I<br>D. By using iron core within solenoid<br>E. All correct except (B) |
| 16 | To convert galvanometer into ammeter we connect | A. small resistance in parallel with galvanometer<br>B. small resistance in series with galvanometer<br>C. high resistance in series with galvanometer<br>D. high resistance in parallel with galvanometer |
| 17 | The total number of lines of magnetic induction pasing through a surface perpendicular to the magnetic field is called | A. magnetic flux<br>B. magnetic flux density<br>C. magnetic induction<br>D. magnetic field intensity |
| 18 | A voltmeter is used to measure the | A. potential difference<br>B. current<br>C. temperature<br>D. resistance |
| 19 | Weber is a unit of | A. magnetic flux<br>B. magnetic filed intensity<br>C. magnetic induction<br>D. magnetic flux density |
| 20 | The working of all DC electric meters (galvanometers, ammetersand voltmeters) depends upon | A. Heating effect of current<br>B. Chemical effect of current<br>C. Magnetic effect of current<br>D. Electromagnetic effect of current |