# Physics ECAT Pre Engineering MCQ's Test For Full Book

| Sr | Questions | Answers Choice |
|---|---|---|
| 1 | A rotating body tends to be slower, when its angular acceleration is: | A. Positive<br>B. Negative<br>C. Zero<br>D. Infinity |
| 2 | The circuit in which current and voltage are in phase, the power factor is | A. zero<br>B. 1<br>C. negative<br>D. 0.83 |
| 3 | The graph showing the variation of displacement with time is a | A. Sine curve<br>B. Straight line<br>C. Parabola<br>D. None of these |
| 4 | Neutron was discovered by | A. Curie<br>B. Roentgen<br>C. Chadwick<br>D. Rutherford |
| 5 | A relationship between Gauses of magnetic induction and Tesla(T) is given by | A. G 10<sup>-3</sup>T<br>B. G = 10<sup>-2</sup>T<br>C. G = 10<sup>-4</sup>T<br>D. G = 10<sup>-1</sup>T |
| 6 | The phenomenon of generation of induced emf is called: | A. Electrostatic induced<br>B. Magnetic induced<br>C. Electromagnetic induced<br>D. Electric induced<br>E. Both A and C |
| 7 | Bernoulli's equation is important in the field of | A. Electrical circuit<br>B. Magnetism<br>C. Photoelectric effect<br>D. Flow of fluids |
| 8 | In the above figures, tell which set is graphs shows that a body is moving uniform velocity: | A. (i) and (ii)<br>B. (ii) and (iii)<br>C. (i) and (iii)<br>D. (ii) and (iv) |
| 9 | Acceleration of a body is positive, if the velocity of the body is | A. constant<br>B. increasing<br>C. decreasing<br>D. none of them |
| 10 | The natural arrangement of colours in the spectrum of white light spectrum is | A. VIBGYOR<br>B. ROYBGIV<br>C. ROYBIGV<br>D. BIGROYV<br>E. None of these |
| 11 | The CRO is used for displaying the waveform of a given | A. current<br>B. voltage<br>C. both of them<br>D. none of them |
| 12 | The curve representing an adiabatic process is called | A. isotherm<br>B. adiabat<br>C. adiable<br>D. none of them |
| 13 | Alternating current is produced by a voltage source which polarity: | A. Remains the same<br>B. Reverse after period T<br>C. Keeps on reversing with time<br>D. Reverse after every time interval T/2<br>E. Both (C) and (D) |
| 14 | In the theory of dimensional analysis, heat may be properly represented by: | A. ML<sup>2</sup>T<sup>-2</sup><br>B. MT<sup>-2</sup><br>C. ML<sup>-1</sup>T<sup>-1</sup><br>D. None of these |
| | | A. <p class="MsoNormal" style="text- |

| | | |
|---|---|---|
| 15 | In the formula $B = \mu_0 nI$, the symbol n denotes: | align:justify">Total number of turns of solenoid<o:p></o:p> <br>B. Number of turns per unit length<o:p></o:p> <br>C. Number of turns per unit volume<o:p></o:p> <br>D. Numbers of turns per unit area<o:p></o:p> <br>E. Number of moles<o:p></o:p> |
| 16 | The maximum distance of body from mean position when body is executing SHM is called | A. Time period<br>B. Displacement<br>C. Amplitude<br>D. Frequency |
| 17 | Significant figures in 0.0010 are: | A. Four<br>B. Three<br>C. Two<br>D. One |
| 18 | In the region surrounding a current carrying wire: | A. A magnetic field is setup <o:p></o:p> <br>B. The lines of force are elliptical<o:p></o:p> <br>C. Direction of lines of forces depends upon direction of current<o:p></o:p> <br>D. Both (A) and (C)<o:p></o:p> <br>E. All of these |
| 19 | The whole shape of the black body spectrum for all wavelengths was explained by the formula proposed by | A. Max plank<br>B. Newton<br>C. Einstein<br>D. J.J. Thomson |
| 20 | The Nobel Prize on the explanation of photoelectric effect was awarded to: | A. Max. Planck<br>B. Maxwell<br>C. Bohr<br>D. Rutherford<br>E. None of these |