

ECAT Pre General Science MCQ's Test For Physics Full Book

| Sr | Questions | Answers Choice |
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| 1 | Electrolysis is the study of conduction of electricity through: | A. Solids B. Liquids C. Gases D. Plasma |
| 2 | The discuss used by athlete has a mass of 1 kg, its weight in newton is | A. 9.8 N B. 80 N C. 98 N D. 100 N |
| 3 | The decrease in velocity per unit time is called: | A. Variable Acceleration B. Average Acceleration C. Retardation D. None of these |
| 4 | Michael Faraday and Joseph Henry belong respectively to | A. USA and England B. England and France C. England and USA D. USA and France E. None of these |
| 5 | At any point on the right bisector of the line joining two equal and opposite charges | A. At electric field is zero B. The electric potential is zero C. The electric potential decreases with increasing distance from the centre D. The electric field is perpendicular to the line joining the charges |
| 6 | Work done by the force of friction is always | A. Positive B. Zero C. Negative D. Maximum |
| 7 | A water hose with an internal diameter of 20 mm at the outlet discharges 30 kg of water in 60 s. What is water speed at the outlet if density of water is 1000 kg/m ³ during its steady flow | A. 1.3 m/s B. 1.6 m/s C. 1.9 m/s D. 2.2 m/s |
| 8 | Two forces each of the magnitude F act perpendicular to each other. The angle made by the resultant force with the horizontal will be: | A. 30° B. 45° C. 60° D. 90° |
| 9 | Three resistors of resistance 2,3 and 6 ohms are connected in parallel, their equivalent resistance is | A. 11.0 ohm B. 1.0 ohm C. 7.0 ohm D. 3.0 ohm |

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| 10 | In a three phase a.c generator if the first coil has a phase 0, then the other two coils will have phases | <p>rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°</p> <p>B. 20° and 140°</p> <p>C. 120° and 240°</p> <p>D. 120° and 140°</p> |
| 11 | The induced emf in a coil is proportional to: | <p>A. Magnetic flux through a coil</p> <p>B. Rate of change of magnetic flux through the coil</p> <p>C. Area of the coil</p> <p>D. Product of magnetic flux and area of the coil</p> |
| 12 | Conversion of A.C. into D.C. is called: | <p>A. Rectification</p> <p>B. Amplification</p> <p>C. Electric induction</p> <p>D. Magnetic induction</p> <p>E. None of these</p> |
| 13 | The unit of viscosity in SI system is: | <p>A. Kg⁻¹m sec⁻¹</p> <p>B. Kg⁻¹ sec⁻¹</p> <p>C. Kg⁻¹m⁻¹ sec</p> <p>D. None of these</p> |
| 14 | The phase at the positive peak of an A.C. cycle is: | <p>A. 0</p> <p>B. 90°</p> <p>C. 180°</p> <p>D. 0 and 360°</p> <p>E. <math>\frac{\pi}{2}</math> and <math>\frac{3\pi}{2}</math></p> |

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| 15 | Astrophysics is a branch of physics, which deals with: | A. Sub-atomic particles B. Stars and galaxies C. Light and sound D. Music |
| 16 | Centripetal force performs: | A. Maximum work B. Negative work C. Positive work D. None of these |
| 17 | The S.I unit of frequency is | A. Vibrations s ⁻² B. Ms ⁻¹ C. Hertz D. s ⁻¹ |
| 18 | Work done is independent of path followed in _____ | A. Gravitational field B. Magnetic field C. Electric field D. All of these |
| 19 | If the absolute uncertainty of an instrument is 0.0a1 cm, then its least count will be : | A. 0.005 cm B. 0.01 cm C. 0.02 cm D. 0.001 cm |
| 20 | When two spherical conducting balls at different potentials are joined by metallic wire, the current starts: | A. <p class="MsoNormal" style="text-align:justify">Decreasing from zero to maximum<o:p></o:p></p> <p><p class="MsoNormal" style="text-align:justify">Increasing from zero to maximum<o:p></o:p></p> <p>C. <p class="MsoNormal" style="text-align:justify">Decreasing from maximum to zero<o:p></o:p></p> <p>D. <p class="MsoNormal" style="text-align:justify">Increasing from maximum to zero<o:p></o:p></p><p>E. </p></p> |