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

| Sr | Questions | Answers Choice |
|---|---|---|
| 1 | The unit of thermodynamical scale is | A. centigrade<br>B. fahrenheit<br>C. kelvin<br>D. none of them |
| 2 | The dimensions of work | A. [MLT<sup>-1</sup>]<br>B. [MLT<sup>-2</sup>]<br>C. [ML<sup>2</sup>T<sup>-2</sup>]<br>D. [MLT] |
| 3 | Gaussian surface is always: | A. Rectangular<br>B. Spherical<br>C. Cylinder<br>D. Box shape<br>E. Any of these |
| 4 | Which one the following gives three regions of electromagnetic spectrum in order of increasing wavelength? | A. Gamma rays, micro waves, visible light<br>B. Radio waves, ultraviolet waves, X-rays<br>C. Ultraviolet rays, infrared rays, micro waves<br>D. Visible light, gamma rays, radio waves |
| 5 | The time taken to complete one vibration is called: | A. Frequency<br>B. Amplitude<br>C. Time<br>D. Time period |
| 6 | The passage of current is accompanied by a magnetic field in the surrounding space: | A. Always accompanied<o:p></o:p> <br>B. Sometimes accompanied<o:p></o:p> <br>C. Never accompanied<o:p></o:p> <br>D. Any of above <o:p></o:p> <br>E. None of these<o:p></o:p> |
| 7 | A man sitting in a bus travelling in a direction from west to east with a speed of 40 km/h observes that the rain drops are falling vertically down. To the another man standing on ground the rain will appear | A. To fall vertically down<br>B. To fall at an angle going from west to east<br>C. To fall at an angle going from east to west<br>D. The information given is insufficient to decide the direction of rain |
| 8 | If water rises 4 cm in a long, thin tube because of capillary action, then, under corresponding conditions of use, the rise (in the tube) of a liquid whose density is 2 $g/cm^2$will be | A. 1 cm<br>B. 2 cm<br>C. 8 cm<br>D. None |
| 9 | 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<br>B. 1.6 m/s<br>C. 1.9 m/s<br>D. 2.2 m/s |

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| 10 | Examples of physical quantities are: | A. Length<br>B. Color<br>C. Effect of music<br>D. All of these |
| 11 | Work is a: | A. Scalar quantity<br>B. Vector quantity<br>C. Base quantity<br>D. None of these |
| 12 | No spark plug is needed in | A. petrol engine<br>B. diesel engine<br>C. both of them<br>D. none of them |
| 13 | Unit of viscosity is: | A. Kg m<sup>-1</sup>sec<sup>-1</sup><br>B. N s m<sup>-2</sup><br>C. J s m<sup>-3</sup><br>D. All of these |
| 14 | When there is no relative motion between the magnet and coil, the galvanometer indicated | A. No current in the circuit<br>B. An increasing current<br>C. A decreasing current<br>D. A constant current<br>E. Either B or C |
| 15 | When a platinum wire is heated, it appears white at | A. 1600°C<br>B. 900°C<br>C. 1100°C<br>D. 1300°C |
| 16 | The motion of a projectile is | A. one dimension<br>B. two dimension<br>C. three dimension<br>D. all of them |
| 17 | A potential barrier of 0.7 V exists across p-n junction made from: | A. Germanium<br>B. Silicon<br>C. Arsenic<br>D. Gallium<br>E. Indium |
| 18 | Where the streamlines are very close to each other, the pressure will be | A. low<br>B. zero<br>C. high<br>D. all of them |
| 19 | Two copper balls of 1 cm and 2 cm in diameter are simultaneously dropped in the same viscous medium. The terminal velocity of bigger ball is: | A. Not affected due to its size<br>B. Twice that of small size ball<br>C. Four times that of small size ball<br>D. 1/4th of that of small size ball |
| 20 | A shunt resistance parallel to the galvanometer is used to convert it into | A. avometer<br>B. millimeter<br>C. voltmeter<br>D. none of these |