

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

| Sr | Questions | Answers Choice |
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| 1 | The waves moving from a sitar to a listener in air are | A. Longitudinal progressive B. Longitudinal stationary C. Transverse progressive D. Transverse stationary |
| 2 | Area under the force displacement graph gives | A. Power B. Work C. Heat D. Energy |
| 3 | The number of translation degrees of freedom for a diatomic gas is | A. 2 B. 3 C. 5 D. 6 |
| 4 | AC voltage is passed through single diode rectifier, the output of the bridge rectifier is. | A. Full wave DC voltage B. Double frequency AC Voltage C. Half wave DC voltage D. None |
| 5 | Acceleration produced in a body by a force varies | A. inversely as the applied force B. directly as the applied force C. directly as the mass of the body D. none of them |
| 6 | An airplane is flying horizontally with a velocity of 600 km/h and at a height of 1960 m. When it is vertically above a point A on the ground, a bomb is released from it. The bomb strikes the ground, at point B. The distance AB is | A. 1200 m B. 0.33 km C. 3.33 km D. 33 km |
| 7 | A boat of mass 40 kg is at rest, A dog of mass 4 kg moves in the boat with a velocity of 10 m/s. What is the velocity of boat? | A. 4 m/s B. 2 m/s C. 8 m/s D. 1 m/s |
| 8 | A certain charge liberates 0.8 g of oxygen. The same charge will liberate. how many g of silver? | A. 108 g B. 10.8 g C. 0.8 g D. 108/0.8 g |
| 9 | A transformer has 100 turns on the input side 500 turns on the output side. If rms value of input voltage are 220 V and 5A respectively. The output power is? | A. 500 watt B. 50 watt C. 1100 watt D. 1440 watt |
| 10 | A relationship between Gauss of magnetic induction and Tesla(T) is given by | A. $G = 10^{-3} T$ B. $G = 10^{-2} T$ C. $G = 10^{-4} T$ D. $G = 10^{-1} T$ |
| 11 | The focal length of convex lens having magnifying power of 5.55 is: | A. 5.5 cm B. 5 cm C. 4.5 cm D. 6 cm |
| 12 | Galvanometer is a device used for the detection of | A. voltage B. current C. temperature D. pressure |
| 13 | A grating with high resolving power can distinguish _____ difference in wavelengths : | A. Larger B. Zero C. None of these D. Smaller |

A. Water

B. Oil

| | | |
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| 14 | The inkjet printer ejects a thin stream of: | <p></o:p></p> C. <p class="MsoNormal">Ink<o:p></o:p></p> D. <p class="MsoNormal">Any of above<o:p></o:p></p> E. <p class="MsoNormal">None of these<o:p></o:p></p></p> |
| 15 | The excess (equal in number) of electrons that must be placed on each of two small spheres spaced 3 cm apart, with force of repulsion between the spheres to be 10^{-19}N , is | A. 25 B. 225 C. 625 D. 1250 |
| 16 | In case of two identical charges placed certain distance apart, the electric field lines are: | A. <p class="MsoNormal">Straight lines<o:p></o:p></p> B. <p class="MsoNormal">Sine curves<o:p></o:p></p> C. <p class="MsoNormal">Curved<o:p></o:p></p> D. <p class="MsoNormal">Both (A) and (B)<o:p></o:p></p> E. <p class="MsoNormal">None of these<o:p></o:p></p> |
| 17 | There is no way to detect: | A. Absolute uniform motion B. Accelerated motion C. State rest D. State of motion E. None of these |
| 18 | A ball of mass m moving with uniform speed collides elastically with another stationary ball. The incident ball will lose maximum kinetic energy when mass of the stationary ball is | A. m B. $2m$ C. $4m$ D. Infinity |
| 19 | The work done by a force, keeping an object in circular motion with constant speed is: | A. Zero J B. 1 J C. 0.1 J D. 0.01 J |
| 20 | From sand, we get a material used for construction of computer chips. That material is called: | A. Copper B. Lead C. Silicon D. Germanium |