

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

| Sr | Questions | Answers Choice |
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| 1 | The field in which work done in moving a body between two points depends upon the path followed is called: | A. Conservative field B. Non-conservative field C. Electric field D. None of these |
| 2 | When a mass 'm' is pulled slowly through a distance 'x ₀ ', the elastic potential energy of the spring would be | A. $P.E = Kx^2$ B. $P.E = \frac{1}{2}Kx$ C. $P.E = \frac{1}{2}Kx^2$ D. $P.E = Kx^2$ |
| 3 | Silicon can be obtained from | A. Lead B. Uranium C. An isotope of oxygen D. Sand |
| 4 | Specific heat at constant pressure is greater than the specific heat at constant volume because | A. Heat is used up to increase temperature at constant pressure B. Heat is used by gas for expansions purposes at constant pressure C. Heat is use dup to increase internal energy D. The above statement is invalid |
| 5 | In the equation $E=mc^2$ value of c is? | A. 186000 miles per hour B. 186000 miles per sec C. 3×10^8 m/sec D. Both A and C E. Both B and C |
| 6 | Example of progressive wave is | A. transverse waves B. longitudinal waves C. both of them D. none of them |
| 7 | Which of the following can become a good temporarily magnet | A. iron B. steel C. both of them D. none of them |
| 8 | The powers of tow electric bulbs are 100 W and 200 W. Both of them are joined with 220 V mains. The ratio of resistances of their filaments will be | A. 1 : 2 B. 2 : 1 C. 1 : 4 D. 4 : 1 |
| 9 | The displacement of body executing SHM is | A. $x \cos \omega t$ B. $x \sin \omega t$ C. $x \sin^2 \omega t$ D. Both A, B |
| 10 | SI Unit of work is | A. Nm^{-1} B. Joule C. Nms D. Both a and b |
| 11 | Rocket engines lift a rocket from the earth surface, because hot gas with high velocity | A. Push against the air B. React against the rocket and push it up C. Heat up the air which lifts the rocket D. Push against the earth |
| 12 | The first series which was identified in the spectrum of hydrogen is called: | A. Lyman series B. Balmer series C. Paschen series D. Brackett series E. Pfund series |
| 13 | One torr is equal to | A. 13.33 N/m^2 B. 760 N/m^2 C. 760 mm Hg D. 133.3 N/m^2 |
| 14 | For a fixed force, larger is the mass of a body the | A. greater is its acceleration B. smaller is its acceleration C. smaller is its weight |

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| | | D. zero is its acceleration |
| 15 | Compton was awarded Nobel prize in physics in | A. 1921 B. 1923 C. 1925 D. 1927 |
| 16 | The solids which has structure in-between order and disorder are called | A. amorphous solids B. polymeric solids C. crystalline solids D. all of them |
| 17 | When angular acceleration is positive, the body rotates: | A. Slower B. Slowest C. Faster D. None of these |
| 18 | As the bob of the pendulum moves to and fro which of the force is experienced by the bob | A. its weight B. tension in the string C. viscous drag force by air D. all of them |
| 19 | A dimension stands for the _____ nature of certain physical quantity. | A. super B. Quantitative C. Qualitative D. Both B and C |
| 20 | To sources are said to be coherent if they have: | A. Same amplitude B. Same wavelength C. Definite phase relation with each other D. None of them |