

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

Sr	Questions	Answers Choice
1	The appearance of colours in the soap (or oil) film results from	<p>A. Dispersion          B. Interference          C. Reflection          D. Refraction</p>
2	Centripetal force for electron is given by	<p>A. <math>mv^2/r</math>          B. <math>mv/r^2</math>          C. <math>mv^2/r</math>          D. <math>mr^2/v</math></p>
3	In the region surrounding a current carrying wire:	<p>A. <span style="font-family: 'Times New Roman', serif; font-size: 12pt; text-align: justify;">A magnetic field is setup</span>  <span style="font-family: 'Times New Roman', serif; font-size: 12pt; text-align: justify;">The lines of force are elliptical</span>          B. <span style="font-family: 'Times New Roman', serif; font-size: 12pt; text-align: justify;">The lines of force are elliptical</span>          C. <span style="font-family: 'Times New Roman', serif; font-size: 12pt; text-align: justify;">Direction of lines of forces depends upon direction of current</span>          D. <span style="font-family: 'Times New Roman', serif; font-size: 12pt; text-align: justify;">Both (A) and (C)</span>          E. All of these</p>
4	When sound waves travel from air to water which of these remains constant?	<p>A. Velocity          B. Frequency          C. Wavelength          D. All the above</p>
5	In radio-active decay, the original element which disintegrate to another element is called	<p>A. element          B. daughter element          C. parent element          D. none of these</p>
6	Resolving power in mth order diffraction for grating is given by:	<p>A. <math>R = N \times m</math>          B. None of these          C. <math>R = m/N</math>          D. <math>R = N/m</math></p>
7	Which one of the following is an example of SHM	<p>A. Motion in a plane          B. Motion in a swing          C. Motion in a car          D. None of these</p>
8	The results of mechanical tests are usually expressed in terms of	<p>A. stress          B. strain          C. stress and strain          D. neither stress nor strain</p>
9	At constant temperature, if the density of the gas is increased, its pressure will:	<p>A. One kg of a substance          B. Unit volume of a substance          C. One mole of a substance          D. None of these</p>
10	A cold soft drink is kept on the balance. When the cap is opened, then the weight	<p>A. Increases          B. Decreases          C. First increases, then decreases          D. Remains same</p>

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11	The stopping voltage for a certain metal is 100 volts, then the work function for the cathode plate is	A. 100 J B. $1.6 \times 10^{-17}$ J C. 100 eV D. $1.6 \times 10^{-17}$ eV
12	The unit of decay constant is:	A. Second B. Metre C. Hour D. Year E. $\text{Second}^{-1}$
13	Electric field lines emerge from the charges in	A. One dimension B. Two dimensions C. Three dimensions D. Four dimensions E. None of these
14	Which force is not a conservative force?	A. Frictional force B. Gravitational force C. Electric force D. Elastic spring force
15	When velocity of moving body is doubled, the quantity which is also doubled is its:	A. K.E. B. Acceleration C. Momentum D. P.E.
16	The portion of the water above its mean level forms a:	A. Crest B. Trough C. Both A and B D. None of these
17	Uncertainty is of following type/types:	A. Absolute B. Fractional C. Percentage D. All of these
18	If two waves of length 50 cm and 51 cm produced 12 beats per second, the velocity of sound is	A. 360 m/s B. 306 m/s C. 331 m/s D. 340 ms
19	The results of spectra obtained by Balmer were expressed in 1896 by:	A. <div>Bohr</div> B. Rydberg C. Planck D. Rutherford E. Coulomb
20	An induced current can be produced by:	A. Constant magnetic field B. Changing magnetic field C. Varying magnetic field D. Constant electric field E. None of these

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