

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

Sr	Questions	Answers Choice
1	Example of progressive wave is	A. transverse waves B. longitudinal waves C. both of them D. none of them
2	Significant figures in 0.2020 are:	A. Two B. Three C. Four D. Five
3	The chemical properties of all the isotopes of an elements are	A. same B. different C. slightly different D. none of these
4	The field around a moving charge is called	A. magnetic field B. conservative field C. non-conservative field D. none of these
5	While describing the motion of a simple pendulum, the frictional effects are	A. taken into account B. completely ignored C. partially ignored D. none of them
6	A disc rolls down a hill and its speed at bottom is found to be 11.4 m/sec. Height of the hill is then nearly:	A. 10 m B. 12 m C. 13 m D. 15 m
7	In circuit X, L = 100 mH and C= 100 meo F are attached in series. In circuit Y, L=100 mH and C= 10 meo G are attached in parallel. The resonating frequency $f_x$ and $f_y$ are related	A. $f_x = f_y$ B. $f_x = 10 f_y$ C. $f_x = 0.01 f_y$ D. Cannot be determined
8	Most OP-AMP operates with	A. $\pm 6$ V supply B. $\pm 10$ V supply C. $\pm 12$ V supply D. $\pm 24$ V supply
9	The CRO deflects the beam of electrons, when they passes through uniform	A. electric field B. gravitational field C. magnetic flax D. magnetic field
10	The material in the form of wire or rod or plate which leads the current into or cut of the electrolyte is known as	A. voltmeters B. resistance C. electrode D. current
11	Light has:	A. Wave nature B. Particle nature C. Dual nature D. None of these
12	The force which maintain the strict long-range order between atoms of a crystalline solid is the:	A. Nuclear force B. Cohesive force C. Adhesive force D. Coulomb force E. None of these
13	The string of a simple pendulum should be:	A. Heavy B. Extensible C. In-extensible D. None of these
14	The motion in a plane is the motion in	A. one dimension B. two dimension C. three dimension D. four dimension
15	A body moving with an acceleration of $5 \text{ m/sec}^2$ started with velocity of 10 m/sec. What will be the distance traversed in 10 seconds?	A. 150 m B. 250 m C. 350 m D. 450 m

16	In an interference pattern of Young's Double Slit (YDS) experiment	<p>A. Bright fringes are wider than dark fringes</p> <p>B. Dark fringes are wider than bright fringes</p> <p><b>C. Both dark and bright fringes are of equal width</b></p> <p>D. Central fringes are wider than the outer fringes</p>
17	The term drift velocity is used when the ends of a wire are:	<p>A. <span style="font-size: 12.0pt;">Connected to a laser source</span></p> <p>B. <span style="font-size: 12.0pt;">Connected to a voltage source</span></p> <p>C. <span style="font-size: 12.0pt;">Not connected to a voltage source</span></p> <p>D. <span style="font-size: 12.0pt;">At different values of potential</span></p> <p><b>E. <span style="font-size: 12pt;">Both (B) and (D)</span></b></p>
18	Mathematical manipulation of the two quantized states can be best carried if they are represented by	<p>A. high - low</p> <p>B. yes - no</p> <p>C. on - off</p> <p><b>D. 0 - 1</b></p>
19	Step up transformer has a transformation ratio of 3:2. What is the voltage in secondary, if voltage in primary is 30V:	<p><b>A. 45 V</b></p> <p>B. 15 V</p> <p>C. 90 V</p> <p>D. 300 V</p>
20	The wave form of alternating voltage is the graph between:	<p>A. Voltage across X-axis and time across y-axis</p> <p>B. Current and time</p> <p><b>C. Voltage along y-axis and time along x-axis</b></p> <p>D. Voltage and current</p> <p>E. Either (B) or (D)</p>