

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	CRO deflects the beam of	A. proton B. α -particle C. electron D. neutron
2	While deriving the equation for pressure of a gas we consider the	A. rotational motion of molecules B. vibrational motion of molecules C. linear motion of molecules D. all of them
3	On heating, glass gradually softens into a paste like before it becomes a very viscous liquid at almost	A. 600 B. 7600 C. 800 D. 900
4	Huygen's theory cannot explain	A. Diffraction B. Interference C. Polarization D. Photoelectric effect
5	In frequency modulation (FM), the carrier waves amplitude	A. Remains constant B. Increase C. Decreases D. None of these
6	The speed of randomly moving electrons depends upon	A. pressure B. volume C. temperature D. mass
7	At higher frequency of the alternating current, the capacitive reactance X_C	A. Increases B. Decreases C. Remains the same D. Increases only when the voltage increases
8	Which of the following is not an assumption of kinetic energy	A. a finite volume of gas consists of very large number of molecules B. the gas molecules are in random motion C. collision between the gas molecules are inelastic D. the size of the gas molecules is much smaller than the separation between molecules
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	The law of conservation of mass gives us the	A. equation of continuity B. Bernoulli's theorem C. both of them D. none of them
11	The portion of the water above its mean level forms a:	A. Crest B. Trough C. Both A and B D. None of these
12	The SI unit of strain is	A. N B. Dynes C. Pascal D. Dimensionless
13	With age, least distance of distinct vision:	A. Increases B. Decreases C. Is not affected D. None is correct

14	The velocity of a body at any instant of its motion is known as	<p>A. average velocity</p> <p>B. instantaneous velocity</p> <p>C. uniform velocity</p> <p>D. none of them</p>
15	Practically the quantity v/c is always:	<p>A. less than one</p> <p>B. Equal to one</p> <p>C. Greater than one</p> <p>D. all of these</p> <p>E. None of these</p>
16	The lines of a diffraction grating have a spacing of 1.2 m. When a beam of monochromatic light is incident normally on the grating. The first order maximum monochromatic light is.	<p>A. 1200 nano meters</p> <p>B. 450 meters</p> <p>C. 600 nano meters</p> <p>D. 700 nano meters</p>
17	Three resistances 500, 500 and 50 ohms are connected in series across 555 volts mains. The current flowing through them will be	<p>A. 0.52 A</p> <p>B. 1 mA</p> <p>C. 0.7 mA</p> <p>D. 1.4 A</p>
18	The strength of magnetic field around the current conductor is	<p>A. Smaller near the conductor</p> <p>B. Greater near the conductor</p> <p>C. Greater at the large distance from the conductor</p> <p>D. Constant near and away from the conductor</p>
19	A current of 1.6 A is passed through a solution of CuSO_4 . How many Cu^{2+} ions are liberated in one minute?	<p>A. 3×10^{20}</p> <p>B. 3×10^{10}</p> <p>C. 6×10^{20}</p> <p>D. 6×10^{10}</p>
20	Compton was awarded Nobel prize in physics in	<p>A. 1921</p> <p>B. 1923</p> <p>C. 1925</p> <p>D. 1927</p>