

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

Sr	Questions	Answers Choice
1	A prism splits a beam of white light into seven component colors. This is so because	<p>A. Phase of different colors is different</p> <p>B. Amplitude of different colors is different</p> <p>C. Wavelength of different colors is different</p> <p>D. Velocity of different colors is different</p>
2	When using optical fiber in data transmission, the angle of incidence θ_i of the light source on the glass fiber should be.	<p>A. Less than critical angle</p> <p>B. Less than angle of refraction</p> <p>C. Greater than critical angle</p> <p>D. Greater than angle of refraction</p>
3	Work done is independent of path followed in _____	<p>A. Gravitational field</p> <p>B. Magnetic field</p> <p>C. Electric field</p> <p>D. All of these</p>
4	Triple point of water is	<p>A. 273.16°F</p> <p>B. 372.16K</p> <p>C. 273.16°F</p> <p>D. 273.16</p>
5	At absolute temperature, the kinetic energy of the molecules	<p>A. Becomes zero</p> <p>B. Becomes maximum</p> <p>C. Becomes minimum</p> <p>D. Remain constant</p>
6	Which one of the following causes production of heat when current is set up in a wire?	<p>A. Fall of electrons from higher orbits to lower orbits</p> <p>B. Inter-atomic collisions</p> <p>C. Inter-electron collisions</p> <p>D. Collisions of conduction electron with atoms</p>
7	In YDS experiment, fringe spacing means the distance between two consecutive _____ fringes	<p>A. Bright</p> <p>B. Dark</p> <p>C. Any of A or B</p> <p>D. None of these</p>
8	If the resistance of 2 ohm and 4 ohm are connected in parallel, the equivalent resistance will be	<p>A. 6 ohm</p> <p>B. 4 ohm</p> <p>C. zero ohm</p> <p>D. 1.33 ohm</p>
9	Two vectors to be combined have magnitudes of 60 N and 35 N. Pick the possible answer:	<p>A. 100 N</p> <p>B. 70 N</p> <p>C. 20 N</p> <p>D. Zero</p>
10	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>C. Both dark and bright fringes are of equal width</p> <p>D. Central fringes are wider than the outer fringes</p>
11	Equal charges are given to two spheres of different radii. The potential will	<p>A. Be more on the smaller sphere</p> <p>B. Be more on the bigger sphere</p> <p>C. Be equal on both the sphere</p> <p>D. Depend on the nature of the material of the sphere</p>
12	If force and displacement are in opposite direction, the work done is taken as:	<p>A. Positive work</p> <p>B. Negative work</p> <p>C. Zero work</p> <p>D. Infinite work</p>

13	Heating effect caused by an electric circuit is written	<p>A. $H = I^2 R t$</p> <p>B. $H = I^2 R$</p> <p>C. $H = I R^2 t$</p> <p>D. $H = I R^2$</p>
14	The impedance of RLC series resonance circuit at resonant frequency is	<p>A. Greater than R</p> <p>B. Equal to R</p> <p>C. Less than R</p> <p>D. None of these</p>
15	A weakly damped system has fairly	<p>A. sharp resonance curve</p> <p>B. flat resonance curve</p> <p>C. both of them</p> <p>D. none of them</p>
16	The consumption of energy by a 60 W bulb in 2 minutes is:	<p>A. 2 watt-hour</p> <p>B. 120 watt-hour</p> <p>C. 30 watt-hour</p> <p>D. None of these</p>
17	One electron volt is equal to	<p>A. $1.6 \times 10^{19} \text{eV}$</p> <p>B. $6.25 \times 10^{18} \text{eV}$</p> <p>C. $1.6 \times 10^{18} \text{eV}$</p> <p>D. $6.25 \times 10^{19} \text{eV}$</p>
18	The minimum charge on any object can not be less than	<p>A. $1.6 \times 10^{-19} \text{C}$</p> <p>B. $3.2 \times 10^{-19} \text{C}$</p> <p>C. 1.0 C</p> <p>D. $4.8 \times 10^{-19} \text{C}$</p>
19	The SI unit of conductivity is	<p>A. ohm-m</p> <p>B. $\text{ohm}^{-1} \text{m}^{-1}$</p> <p>C. ohm-m^{-1}</p> <p>D. $\text{ohm}^{-1} \text{m}$</p>
20	When a force is applied on a body, several effects are possible Which of the following effect could not occur?	<p>A. the body rotates</p> <p>B. the body speeds up</p> <p>C. the mass of the body decreases</p> <p>D. the body changes its direction</p>