

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

Sr	Questions	Answers Choice
1	The most abundant isotope of neon is	A. neon-20 B. neon-21 C. neon-22 D. neon-23
2	Which one the following gives three regions of electromagnetic spectrum in order of increasing wavelength?	A. Gamma rays, micro waves, visible light B. Radio waves, ultraviolet waves, X-rays C. Ultraviolet rays, infrared rays, micro waves D. Visible light, gamma rays, radio waves
3	Carnot heat engine only used	A. isothermal processes B. adiabatic processes C. both of them D. none of them
4	For a parallel resonant circuit at resonance, current from supply is	A. minimum B. maximum C. zero D. none of these
5	A resistance used in galvanometer to make it voltmeter is called	A. shunt resistance B. high resistance C. zero resistance D. none of these
6	Resistance of a conductor is increased, the currant will	A. Decrease B. Increase C. Remain the same D. None of these
7	The quantity having dimension of ML^2T^{-2} will earth is:	A. 80 sec B. 500 sec C. 1.802×10^4 sec D. Aerophysics
8	Which of the following options correctly states the equation of continuity for an ideal fluid?	A. $A_1 v_1 = A_2 v_2$ B. $A_1 v_1^2 = A_2 v_2^2$ C. $A_1 v_1 = A_2 v_2$ D. none of the above
9	Truth of kinetic energy is confirmed by:	A. Diffusion of gases B. Brownian motion C. Both A and B D. None of these
10	If a force of 0.05 N produces an elongation of 20 mm in string, then its spring constant will be:	A. 250 N m^{-1} B. 25 N m^{-1} C. 2.5 N m^{-1} D. None of these
11	If a simple pendulum is shifted from karachi to K-2 cliff, its time period	A. remains the same B. decreases C. increases D. none of them
12	Neutron was discovered in	A. 1915 B. 1920 C. 1925 D. 1932
13	The emitter-base junction of a transistor is forward-biased and collector-base junction is reverse-biased. If the base current is increased, its	A. I_c will decrease B. V_{CE} will increase C. I_C will increase D. V_{CC} will increase
14	The reverse saturation current in a PN junction diode is only due to	A. Majority carriers B. Minority Carriers C. Acceptor ions D. Donor ions

		D. Donor ions
15	An object is dropped from a height of 100 m. Its velocity at the moment it touches the ground is:	A. 100 m/sec B. 140 m/sec C. 1960 m/sec D. 196 m/sec
16	Total number of turns on 0.15 m length solenoid is 300. the value of n is:	A. Greater than 300 B. Smaller than 300 C. Equal to 300 D. Any of (A) or (B) E. Any of (A) or(C)
17	Consider two spheres A and B of radii r_a and r_b both concentric with point charge Q, if $r_a > r_b$ then the total flux passing normally through the sphere A and B is related as	A. Flux through A is greater B. Flux through both sphere is equal C. Flux through a may be greater or less than Q depending on radius D. Flux through sphere B is greater
18	Work done in lowering the bucket into the well is:	A. Zero B. Positive C. Negative D. None of these
19	Huygen principle is used to determine	A. Speed of light B. Location of wavefront C. About polarized and unpolarized light D. None of them
20	When a person jumps off the ground, the reaction force of the ground is	A. greater than the weight of the person B. smaller than the weight of the person C. equal to the weight of the person D. zero