

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

Sr	Questions	Answers Choice
1	The velocity of sound at same temperature is maximum in	A. H ₂ B. N ₂ C. O ₂
2	The instantaneous acceleration of a body moving with constant speed in a circle:	D. NH ₃ A. Remains constant B. Is called centripetal acceleration C. Tangential acceleration D. None of these
3	A stone tied to the end of a 20 cm long string is whirled in a horizontal circle. If centripetal acceleration is 9.8 m/sec ² , then its angular velocity is rad/sec is:	A. 22/7 B. 7 C. 14 D. 21
4	Speed of Sound in vacuum is.	A. 332 m sec -1 B. 0. m sec-1 C. 340 m sec-1 D. 350 m sec-1
5	Example of progressive wave is	A. transverse waves B. longitudinal waves C. both of them D. none of them
6	Which one of the following elasticizes is possessed by fluids:	A. Young's elastic modulus (length) B. Bulk elastic modulus (volume) C. Modulus of rigidity (shape) D. None of these
7	The distance covered by the wave in one second is:	A. Wave number B. Wave length C. Frequency D. Wave speed
8	The relation between charge 'Q' and current 'I' is given by	A. Q = I/t B. Q = It C. Q = I ² t D. Q = I ² /t
9	Significant figures in 0.2020 are:	A. Two B. Three C. Four D. Five
10	The maximum displacement of a body on either side of its equilibrium position is called	A. frequency B. amplitude C. displacement D. time period
11	If two forces of magnitudes 3.5 and 2.5 N act on a body such that the angle between the forces is zero, then magnitude of the resultant will be:	A. 1.0 N B. 6 N C. 3.5 N D. 12 N
12	The work done moving a body between two points in a conservation field is independent of the:	A. Direction B. Force applied C. Path followed by the body ` D. Power
13	A photon is considered to have	A. Momentum B. Energy C. Wavelength D. All of the above
14	The field in which work done in moving a body between two points depends upon the path followed is called:	A. Conservative field B. Non-conservative field C. Electric field D. None of these
15	In case of a parallel plate capacitor if the plate separation is doubled and plate area is halved, the capacitance becomes	A. Four-fold B. One-half C. One-fourth D. Zero

16	The process which is carried out at constant temperature is known as	A. adiabatic process B. isothermal process C. isochoric process D. none of them
17	Wavelength of light, on the average, is given by	A. 10 ⁻¹⁴ m B. 10 ⁻¹⁰ m C. 10 ⁻⁶ m D. 10 ⁻⁴ m
18	Range of a projectile is R, when the angle of projection is 30° . Then, the value of the other angle of projection for the same range, is	A. 45 ° B. 60 ° C. 50 ° D. 40 °
19	Two copper balls of 1 cm and 2 cm in diameter are simultaneously dropped in the same viscous medium. The terminal velocity of bigger ball is:	A. Not affected due to its size B. Twice that of small size ball C. Four times that of small size ball D. 1/4th of that of small size ball
20	When certain nucleus emits anα particle, its mass number:	A. Increases by one B. Decreases by one C. Remain same D. Decreases by four E. None of these