

ECAT Pre General Science Physics Online Test

Sr	Questions	Answers Choice
1	When quarter of a circle is completed, phase of vibration is:	A. 90

	cm/sec in a fluid of velocity 5.31 x 10 ⁻⁷ m/sec. The units comes out to be:	C. 10 ⁻¹² N D. 10 ⁻¹⁰ N
10	The dimensions of viscosity are:	A. M ² L ^{- 1} T ⁻² B. M ^{- 1} L ¹ T ^{- 1} C. M ⁻¹ T ^{T D. ML⁻¹T}
11	The unit of viscosity is SI system is:	A. Kg ⁻¹ m sec ⁻¹ B. Kgm ⁻¹ sec ⁻¹ C. Kg ⁻¹ sec D. None of these
12	When the upward drag force of the fluid becomes equal to downward force of gravity of the droplet, then its velocity:	A. Starts increasing B. Starts decreasing C. Becomes constant D. Is called escape velocity
13	0.10 cm can be written as:	A. 1.0 x 10 ⁻² m B. 1.0 x 10 ⁻³ cm C. 1.0 x 10 ⁻⁴ cm D. 1. x 10 ⁻⁴ m
14	Stoke;s law is not applicable when the speed of the object moving through a fluid is:	A. Zero B. Small C. Large D. None of these
15	Drag force increases if speed of the object moving through the fluid:	A. Increases B. Decreases C. Remains constant D. None of these
16	Fog droplets are suspended in air when their weight is balanced by:	A. Force of gravity B. Upward trust due to air C. Surface tension D. None of these
17	At high speed, fluid friction and fuel consumption;	A. Increases, decreases B. Increases, increases C. Decreases, increases D. None of these
18	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
19	When the droplet moves with terminal velocity in a fluid, the net force acting on the droplet is:	A. F _D -mg B. Zero C. mg-F _D D. None of these
20	The viscous the medium is, is the value of terminal velocity of the droplet:	A. More, lesser B. Lesser, more C. Both A and B D. Lesser, lesser
21	Terminal velocity is the maximum velocity attained by a spherical droplet when the drag forcethe weight of droplet:	A. Is smaller than B. Is greater than C. Becomes equal to D. None of these
22	A massive object falls through a fluid:	A. Faster B. Slower C. Slowest D. None
23	High speed meteors rushing through air reduces to ashes because of:	A. Force of gravity B. High resistance of air C. Drag force D. None of these
24	Stock's law holds for:	A. Motion through free space B. Motion through viscous medium C. Bodies of all shapes D. None of these
25	Viscosity of water is that of air but that of plasma.	A. More, more B. Less, more C. Less, less D. More, less

26	Fluid friction is the friction between two solid surfaces:	A. Greater than B. Smaller than C. Equal to D. None of these
27	Density of fluid is defined as:	A. Its volume to mass ratio B. Product of volume and mass C. Its mass of volume ratio D. None of these
28	Unit of viscosity is:	A. Kg m ⁻¹ sec ⁻¹ B. N s m ⁻² C. J s m ⁻³ D. All of these
29	Glycerin has viscosity the viscosity of water:	A. More than B. Equal to C. Less than D. None of these
30	A body is moving through a viscous medium eventually comes to rest because of:	A. Force of gravity B. Force of friction C. Its weight D. Both A and C