

Physics ECAT Pre Engineering Chapter 6 Fluid Dynamics Online Test

Sr	Questions	Answers Choice
1	At the starting point of the free fall motion of an object, its acceleration will be	A. maximum B. minimum C. zero D. none of them
2	The body will move with terminal velocity when it acquires	A. minimum speed B. zero speed C. maximum speed D. none of them
3	During the free fall motion of an object, when its weight becomes equal to the drag force, then it will move with	A. maximum speed B. zero speed C. maximum speed D. none of them
4	When weight of an object falling freely becomes equal to the drag force, then the body will move with	A. increasing speed B. decreasing speed C. constant speed D. none of them
5	When a water droplet falls through air, the net force on it is	A. Net force = drag force - weight B. Net force = weight - drag force C. Net force = drag force + weight D. Net force = weight + drag force
6	When a water droplet falling freely through air, the drag force on water droplet increases with	A. decrease in speed B. increase in speed C. pressure D. none of them
7	At low speeds, the drag force is	A. proportional to speed B. inversely proportional to speed C. not simply proportional to speed D. none of them
8	The maximum drag force on a falling sphere is 9.8 N, its weight is	A. 1 N B. 9.8 N C. 4.9 N D. Cannot be calculated
9	According to Stokes's law, drag force depends on	A. Radius of the spherical body B. Terminal velocity of body C. Coefficient of viscosity D. All of above
10	When the speed of a body in a fluid increases then the drag force	A. decreases B. becomes zero C. increases D. none of them
11	An object moving through a fluid experiences a retarding force called a	A. frictional force B. terminal force C. opposing force D. drag force
12	Liquids and gases have	A. zero viscosity B. non-zero viscosity C. very large viscosity D. very small viscosity
13	Substances that flow easily have	A. large coefficient of viscosity B. small coefficient of viscosity C. either of them D. none of them
14	Substances that do not flow easily have	A. large coefficient of viscosity B. small coefficient of viscosity C. either of them D. none of them
15	How much force is required to slide one layer of the liquid over the other layer is measured by	A. friction B. density C. viscosity D. resistivity

