

ECAT Physics Chapter 6 Fluid Dynamics

Sr	Questions	Answers Choice
1	N s m^{-2} is unit of:	A. Drag force B. Pressure C. Surface tension D. Coefficient of viscosity
2	The velocity gained by the fluid in falling through the distance ($h_1 - h_2$) under the action of gravity is equal to the speed of the action of gravity is equal to the speed of the	A. orifices B. efflux C. fluid D. none of them
3	The application of Bernoulli's equation is	A. Torricelli's theorem B. Venture relation C. Binomial theorem D. Both a and b
4	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
5	With the increase of temperature viscosity	A. Increase B. Decrease C. Remains same D. Doubles
6	The property of fluids due to which they resist their own flow is called:	A. Drag force B. Surface tension C. Viscosity D. None of these
7	Unit of viscosity is:	A. $\text{Kg m}^{-1}\text{sec}^{-1}$ B. N s m^{-2} C. J s m^{-3} D. All of these
8	Internal friction of fluid is called	A. Surface tension B. Viscosity C. Resistance D. Cohesive force
9	When the velocity of a liquid flowing steadily in a tube increases, its pressure?	A. Decreases B. Increases C. Remains same D. Zero
10	The law of conservation of mass gives us the	A. equation of continuity B. Bernoulli's theorem C. both of them D. none of them
11	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
12	The instrument which detects the instant at which external pressure becomes equal to the systolic pressure is	A. stethoscope B. thermometer C. manometer D. barometer
13	Where the streamlines are very far apart from each other, the pressure will be	A. low B. zero C. high D. all of them
14	Blood pressure is measured in torr. Which of the following units could belong to torr?	A. N m^{-1} B. N m^{-2} C. N m D. m^{-2}
15	The law of conservation of energy gives us	A. equation of continuity B. Bernoulli's theorem C. both of them D. none of them

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16	In a normal healthy person the value of systolic pressure is	A. 75 torr B. 80 torr C. 120 torr D. all of them
17	What is another name for laminar flow?	A. streamline B. unsteady flow C. turbulent flow D. both (a) and (b)
18	The terminal velocity of water droplet of radius 1×10^{-4} m and density 1000 kg m^{-3} descending through air of viscosity $19 \times 10^{-6} \text{ kg. m}^{-1} \text{ s}^{-1}$ is	A. 2.5 ms^{-1} B. 3.2 ms^{-1} C. 4.3 ms^{-1} D. 1.1 ms^{-1}
19	The rain drop falling from the sky reach the ground with	A. Constant terminal velocity B. Constant gravitational acceleration C. Variable acceleration D. acceleration greater than g
20	The smooth or steady streamline flow is known as	A. laminar flow B. turbulent flow C. both of them D. none of them