ECAT Pre General Science Physics Chapter 6 Fluid Dynamics

Sr	Questions	Answers Choice
1	Bernoulli's equation is based upon law of conservation	A. Mass B. Momentum C. Energy D. None of these
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	Ball pen functions on the principle of	A. Viscosity B. Boyle's law C. Gravitational force D. Surface tnesion
4	The direction of the streamlines is the same as the direction of the	A. force B. torque C. velocity D. weight
5	If the flow is incompressible and the flow is steady then the mass of the fluid through the pipe	A. increases B. decreases C. becomes zero D. is conserved
6	The terminal velocity of water droplet of radius 1 x 10^{-4}m and desity 1000 kg m^{-3}descending through air of viscosity 19 x 10^{-6}kg. m^{-1} s^{-1} is	A. 2.5 ms⁻¹ B. 3.2 ms⁻¹ C. 4.3 ms⁻¹ D. 1.1 ms⁻¹
7	The fluid which is incompressible and non viscous is called	A. Ideal fluid B. Non-ideal fluid C. Prefect fluid D. All
8	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
9	A device used to measure the speed of liquid flow is known as	A. barometer B. speedometer C. sphygmomanometer D. venture-meter
10	The flow of an ideal fluid is	A. streamline flow B. incompressible flow C. non-viscous D. all of the above
11	Which of the following options states the names of fluids in the order of increasing viscosity?	A. mercury, motor oil, methanol B. methanol, mercury, motor oil C. motor oil, mercury, methanol D. methanol, motor oil, mercury
12	The un-steady streamline flow is called	A. laminar flow B. turbulent flow C. both of them D. none of them
13	The dimensions of viscosity are:	A. M²L⁻¹T⁻² B. M⁻¹L¹T⁻¹ C. M⁻¹L⁻¹T D. ML⁻¹T⁻¹
14	The SI unit of viscosity is	A. kg m⁻¹s⁻¹ B. kg ms⁻¹ C. kg m⁻¹s⁻² D. kg m⁻¹s

15	Blood has a density	A. Equal to water B. Greater then water C. Lesser then water D. None of these
16	Where the streamlines are very close to each other, the pressure will be	A. low B. zero C. high D. all of them
17	When the velocity of a liquid flowing steadily in a tube increases, its pressure?	A. Decreases B. Increases C. Remains same D. Zero
18	The smooth or steady streamline flow is known as	A. laminar flow B. turbulent flow C. both of them D. none of them
19	A container has a small hole in the bottom. Air can go through this hole,but water cannot. This can be best explained by the statement that	A. water contains hydrogen atoms, air does not B. water molecules are smaller than molecules in the air C. water molecules are smaller than molecules in the air D. surface tension of the water prevents it from
20	The effect of friction between different layers of a flowing fluid is described in terms of	A. motion of fluid B. nature of fluid C. colour of fluid D. viscosity of fluid