ECAT Pre General Science Physics Chapter 6 Fluid Dynamics

Sr	Questions	Answers Choice
1	The fluid is incompressible, if itsdensity is	A. zero B. constant C. very high D. very small
2	One torr is equal to	A. 13.33 N/m² B. 760 N/m² C. 760 mm Hg D. 133.3 N/m²
3	Matter is made up of very tiny particles called	A. Atoms B. Molecules C. Ions D. None of these
4	Where the streamlines are very close to each other, the pressure will be	A. low B. zero C. high D. all of them
5	Fluids resist force, This property is called	A. Stiffness B. Strength C. Ductility D. Elasticity
6	The velocity of falling raindrop attains limited value because of	A. Up trust of air B. Viscous force exerted by air C. Surface tension effect D. Air currents atmosphere
7	If water rises 4 cm in a long, thin tube because of capillary action, then, under corresponding conditions of use, the rise (in the tube) of a liquid whose density is 2 g/cm^2will be	A. 1 cm B. 2 cm C. 8 cm D. None
8	When the velocity of a liquid flowing steadily in a tube increases, its pressure?	A. Decreases B. Increases C. Remains same D. Zero
9	The flow of an ideal fluid is	A. streamline flow B. incompressible flow C. non-viscous D. all of the above
10	Machine parts are jammed due to:	A. Increasing in viscosity of lubricant B. Decreasing in viscosity of lubricant C. Decreasing in surface tension of lubricant D. None of these
11	Bernoulli's equation is based upon law of conversation of	A. mass B. momentum C. Energy D. None
12	Bernoulli's equation is applicable for	A. turbulent flow B. streamline flow C. both (a) and (b) D. all kinds of flows
13	The equation of continuity is	A. A₁A_{2 = V} ₁V₂ B. A_{1/}_V _{1 = }A_{2/}V₂ C. _V _{1/}A_{1= }V_{2/}A₂ D. A₁_V _{1 = }A₂_V₂
		A. large coefficient of viscosity

14	Substances that flow easily have	B. small coefficient of viscosity C. either of them D. none of them
15	The irregular and unsteady flow of the fluid is called	A. turbulent flow B. steady flow C. either of them D. both of them
16	The study of fluid in motion basically involves law of conservation of:	A. Mass B. Energy C. Change D. Both A and C E. Both A and B
17	If one of the pipes has a much smaller diameter than the other and are placed horizontally then form both sides of Bernoulli's equation, we can drop the term	A. P B. 1/2 fv² C. pgh D. none of them
18	Bernoulli's equation is based upon law of conservation	A. Mass B. Momentum C. Energy D. None of these
19	Fluids have three types of energies. The Bernoulli's equation combines those energies.which of the following is one of the three enrgies possessed by a fluid?	A. potential energy B. pressure energy C. strain energy D. (a) and (b) only
20	According to the Bernoulli's theorem the pressure velocity are	A. equal to each other B. proportional to each other C. inversely proportional to each other D. none of them