Physics ECAT Pre Engineering Chapter 6 Fluid Dynamics

Sr	Questions	Answers Choice
1	Blood is an	A. Compressible fluid B. incompressible fluid C. hard D. none of them
2	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
3	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
4	The equation of continuity $A_1V_1 = A_2V_2$is for the flow of	A. an ideal fluid B. an incompressible fluid C. a non visconcous fluid D. all of the above
5	The irregular and unsteady flow of the fluid is called	A. turbulent flow B. steady flow C. either of them D. both of them
6	The body will move with terminal velocity when it acquires	A. minimum speed B. zero speed C. maximum speed D. none of them
7	Unit of viscosity is:	A. Kg m⁻¹sec⁻¹ B. N s m⁻² C. J s m⁻³ D. All of these
8	When a fluid is in motion, its flow can be considered as	A. turbulent B. streamline C. either or them D. neither of them
9	The dimensions of viscosity are:	A. M²L⁻¹T⁻² B. M⁻¹L¹T⁻¹ C. M⁻¹L⁻¹T D. ML⁻¹T⁻¹
10	The law of conservation of energy gives us	A. equation of continuity B. Bernoulli's theorem C. both of them D. none of them
11	The terminal velocity of water droplet of radius 1×10^{-4}m and desity 1000 kg m^{-3}descending through air of viscosity 19×10^{-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
12	According to slok'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
13	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
		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 fluid which is incompressible and non viscous is called	A. Ideal fluid B. Non-ideal fluid C. Prefect fluid D. All
16	A massive object falls through a fluid:	A. Faster B. Slower C. Slowest D. None
17	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
18	What are the SI base units of the coefficient of viscosity	A. Kg m s⁻² B. kgm² s⁻² C. Kg m s⁻¹ D. kg m⁻¹s⁻¹
19	With increase of temperature, the viscosity of liquid and gases	A. Increases for both B. Decreases for both C. Increases for liquids and decreases for gases D. Decreases for liquids and increases for gases
20	A flowing liquid possess	A. K.E B. P.E C. Pressure Energy D. All