

Physics ECAT Pre Engineering Chapter 6 Fluid Dynamics Online Test

Sr	Questions	Answers Choice
1	Surface tension of water is due to	A. Inter molecular attractions B. Inter molecular spaces C. Inter molecular repulsion D. None of above
2	Bernoulli's equation is based upon law of conversation	A. Mass B. Momentum C. Energy D. None of these
3	The terminal velocity of a small size spherical body of radius R moving in a fluid varies as	A. R B. $R^{2/3}$ C. $1/R$ D. $(1/R)^{2/3}$
4	The velocity of falling raindrops attains limited value because of	A. Up thrust of air B. Air currents of the earth atmosphere C. Surface tension effect D. Viscous force exerted by air
5	In Bernoulli's theorem the relation between velocity and pressure is	A. Inverse B. Direct C. None of the above D. Both a and b
6	In the case of an incompressible fluid in stead flow the net rate of flow of mass entering one end of the tube of flow is equal to the net rate of flow of mass leaving the other end. This equation is called	A. Quadratic equation B. Equation of discontinuity C. Equation of continuity D. None of the above
7	The smooth or steady stream-line flow is know as	A. Laminar flow B. Turbulent flow C. Both a and b D. None of the above
8	With the increase of temperature viscosity	A. Increase B. Decrease C. Remains same D. Doubles
9	The application of Bernoulli's equation is	A. Torricelli's theorem B. Venture relation C. Binomial theorem D. Both a and b
10	Bernoulli's equation is important in the field of	A. Electrical circuit B. Magnetism C. Photoelectric effect D. Flow of fluids
11	Bernoulli's equation is based upon law of conservation	A. Mass B. Momentum C. Energy D. None of these
12	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
13	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
14	The SI unit of viscosity is	A. $\text{kg m}^{-1}\text{s}^{-1}$ B. kg ms^{-1} C. $\text{kg m}^{-1}\text{s}^{-2}$ D. $\text{kg m}^{-1}\text{s}$

15

Matter is made up of very tiny particles called

- A. Atoms
- B. Molecules
- C. Ions
- D. None of these