

Physics ECAT Pre Engineering Chapter 6 Fluid Dynamics Online Test

Sr	Questions	Answers Choice
1	A flowing liquid possess	A. K.E B. P.E C. Pressure Energy D. All
2	The force exerted by the fluid in a hydraulic pump on the piston is 10 cm^2 , the fluid pressure on the piston is, in N/cm^2	A. 20 B. 200 C. 2000 D. 20,000
3	The density of water is 10^3 kg/m^3 . The water pressure on a submarine is $2.0 \times 10^7 \text{ N/m}^2$. The depth of the submarine below the surface of the water, in meters, is approximately	A. 200 m B. 11000 m C. 2000 m D. 8000 m
4	The term Brownian movement refers to	A. irregular motions of small particles suspended in a fluid B. convection currents in a liquid or gas C. convection currents in a gas but not in a liquid D. the stretching of a body beyond its elastic limit
5	Pressure exerted by a gas on the walls of its container is due to	A. adhesion between the gas molecules and the container B. cohesion between the gas molecules and the container C. collision between the gas molecules and the container D. surface tension of the gas
6	A body is floating in a liquid. The up thrust on the body is	A. Equal to weight of liquid displaced B. Zero C. Less than the weight of liquid displaced D. Weight of body-weight of liquid displaced
7	In a surface tension experiment with a capillary tube water rises up to 0.1 m. if the same experiment is repeated on an artificial satellite, which is revolving around the earth, water will rise in the capillary tube up to a height of	A. 0.1 m B. 0.2 m C. 0.98 m D. Full length of the capillary tube
8	In a container having water filled up to a height h , a hole is made in the bottom. The velocity of water flowing out of the hole is	A. Independent of h B. Proportional to $h^{1/2}$ C. Proportional to h D. Proportional to h^2
9	Internal friction of fluid is called	A. Surface tension B. Viscosity C. Resistance D. Cohesive force
10	At high altitude the blood oozes out of the nose and ear because	A. The blood pressure increase at high altitudes B. The percentage of oxygen in the air increase C. The atmospheric pressure decrease there D. The density of blood decrease at high altitudes
11	The pressure will be low where the speed of the fluid is	A. Zero B. High C. Low D. Constant
12	Blood has a density	A. Equal to water B. Greater than water C. Lesser than water D. None of these
13	According to Stoke's law. drag force depends on	A. Initial velocity B. Final velocity C. ...

		C. Terminal velocity D. Instantaneous velocity
14	Ball pen functions on the principle of	A. Viscosity B. Boyle's law C. Gravitational force D. Surface tension
15	A person standing near the track of a fast moving train has tendency to fall towards it because of	A. Vibration due to motion of train B. Gravitational force of attraction between person and trains C. The high speed of train D. Some other effect