

Physics ECAT Pre Engineering Chapter 6 Fluid Dynamics

Sr	Questions	Answers Choice
1	$N \cdot s \cdot m^{-2}$ is unit of:	A. Drag force B. Pressure C. Surface tension D. Coefficient of viscosity
2	The un-steady streamline flow is called	A. laminar flow B. turbulent flow C. both of them D. none of them
3	The velocity of falling raindrop attains limited value because of	A. Up thrust of air B. Viscous force exerted by air C. Surface tension effect D. Air currents atmosphere
4	If every particle of the flow that passes a particular point, moves along the same path as followed by particles which passed the point earlier, then this flow is said to be	A. turbulent B. streamline C. abrupt D. none of them
5	The law of conservation of energy gives us	A. equation of continuity B. Bernoulli's theorem C. both of them D. none of them
6	The blood pressure of a person	A. decrease with age B. increase with age C. has no effect with age D. none of them
7	The smooth or steady streamline flow is known as	A. laminar flow B. turbulent flow C. both of them D. none of them
8	The SI unit of viscosity is	A. $kg \cdot m^{-1} \cdot s^{-1}$ B. $kg \cdot ms^{-1}$ C. $kg \cdot m^{-1} \cdot s^{-2}$ D. $kg \cdot m^{-1}$
9	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
10	The electrical forces between the molecules of a liquid are	A. Repulsive B. Attractive C. Both A and B D. None
11	A device used to measure the speed of liquid flow is known as	A. barometer B. speedometer C. sphygmomanometer D. venture-meter
12	Blood pressure is measured in torr. Which of the following units could belong to torr?	A. $N \cdot m^{-1}$ B. $N \cdot m^{-2}$ C. $N \cdot m$ D. $N \cdot m^{-1} \cdot m^{-2}$
13	Above a certain velocity of a fluid is called	A. turbulent flow B. steady flow C. either of them D. both of them
14	The application of Bernoulli's equation is	A. Torricelli's theorem B. Venture relation C. Binomial theorem D. Both a and b E. irregular motions of small particles

- 15 The term Brownian movement refers to **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
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- 16 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
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- 17 The fluid which is incompressible and non viscous is called **A. Ideal fluid**
B. Non-ideal fluid
C. Perfect fluid
D. All
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- 18 Glycerin has viscosity _____ the viscosity of water: **A. More than**
B. Equal to
C. Less than
D. None of these
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- 19 Two water pipes of diameters 4 cm and 8 cm are connected with a supply line. The velocity of flow of water in the pipe 4 cm diameter is **A. 1/4 times**
B. 4 times
C. Twice
D. **1/2 of 8 cm diameter pipe**
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- 20 Fire fighters have jet attached to the head of their water pipes in order to **A. Increase the mass of water flowing per second**
B. Increase the velocity of water flowing out
C. **Increase the volume of water flowing per second**
D. Avoid wastage of water