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J.E.E./A.I.P.M.T. Foundation - XI Physics Worksheet

Time: 30 min Chapter#10: Mechanical Properties of Fluids-01 Full Marks: 20

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- 1. All questions are compulsory.
- 2. Please give the explanation for the answer where applicable.

Q1 - What is a fluid?	
Q1 - What is a huid:	(1 Mark)
Q2 - What happens to the surface tension of the liquid when temperature is increased?	(1 Mark)
Q3 - What is surface energy?	(1 Mark)
Q4 - What will be the acceleration of a body falling through a viscous medium after terminal vel reached?	ocity is
	(2 Marks)
Q5 - Explain why the blood pressure in humans is greater at the feet than at the brain.	(2 Marks)
Q6 - Explain why surface tension of the liquid is independent of the area of contact of the liquid	surface. (2 Marks)
Q7 - Explain why we should blow over the paper to keep it horizontal.	(3 Marks)
Q8 - The level of water in a tank is 5 m high. A hole of area 1 cm ² is made at the bottom of the Find the rate of leakage of water from the hole?	tank.
	(3 Marks)
Q9 - Water is flowing in a river. If the velocity of a layer at a distance 10 cm from the bottom is cm/sec ,find the velocity of layer at a height of 40 cm from the bottom?	
	(5 Marks)