

PHYSICAL PROPERTIES OF MATERIALS BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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Q1. Hydraulic lift is based on the principle of

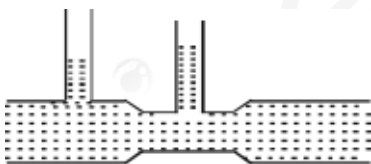
- a) Bernoulli's theorem
 - b) Pascal's law
 - c) Toricelli's theorem
 - d) Stoke's law
-

Q2. 200 gm of water is filled in a weightless balloon. Its weight in water will be

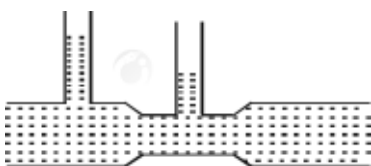
- a) 100 gm
 - b) 200 gm
 - c) Zero
 - d) 400 gm
-

Q3. For a fluid which is flowing steadily, the level in the vertical tubes is best represented by

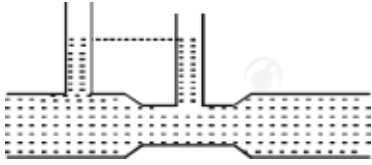
a)



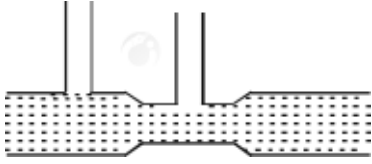
b)



c)



d)



Q4. According to Hooke's law of elasticity, if stress is increased, then the ratio of stress to strain

- a) remains constant
- b) becomes zero
- c) decreases
- d) increases

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Q5. Why does an iron nail float on mercury while it sinks in water?

- a) Iron is heavier than water and lighter than mercury
- b) Iron has greater density than water and lesser than mercury
- c) Due to less chemical interaction of iron with mercury than it is with water
- d) Mercury is heavier than water

Q6. The tendency of a liquid drop to contract and occupy minimum area is due to

- a) Viscosity
- b) Density
- c) Surface tension

d) Vapour pressure

Q7. If the force on the surface is doubled and area is reduced to half, pressure will

- a) become 3 times
 - b) become 2 times
 - c) become 4 times
 - d) remain unchanged
-

Q8. At which temperature density of water is maximum?

- a) 0°C
 - b) -4°C
 - c) 4°C
 - d) -8°C
-

Q9. Four wires of same material and dimensions as mentioned below are stretched by a load of same magnitude separately. Which one of them will be elongated maximum?

- a) Wire of 2 m length and 2 mm diameter
 - b) Wire of 3 m length and 1.5 mm diameter
 - c) Wire of 1 m length and 2 mm diameter
 - d) Wire of 1 m length and 1 mm diameter
-

Q10. The most important property of nanomaterial is

- a) Friction
 - b) Pressure
 - c) Force
 - d) Temperature
-

Q11. Spherical form of raindrop is due to

- a) Surface tension
 - b) Atmospheric pressure
 - c) Density of liquid
 - d) Gravitational force
-

Q12. The lift in an aeroplane is based on

- a) Theorem of continuity
- b) Law of gravitation
- c) Pascal's law
- d) Bernoulli's theorem

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Q13. Kerosene oil rises up in a wick of a lantern because of

- a) surface tension
 - b) diffusion of the oil through the wick
 - c) buoyant force of air
 - d) the gravitational pull of the wick
-

Q14. Surface tension of a liquid is due to

- a) electrical force between molecules
 - b) gravitational force between molecules
 - c) adhesive force between molecules
 - d) cohesive force between molecules
-

Q15. A needle sinks in water whereas a ship made of iron floats on it because

- a) The ship is flat
- b) The ship driver, by power flat engine
- c) The edge of the needle is pointed
- d) Specific gravity of the needle is greater than that of water displaced by it

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Answers to the above questions :

Q1. Answer: (b)

Hydraulic lift is based on the principle of Pascal's law.

Q2. Answer: (c)

Q3. Answer: (b)

From continuity equation, velocity at cross-section (1) is more than that at cross-section (2).

Hence, $P_1 < P_2$.

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Q4. Answer: (a)

The ratio of stress to strain is always constant. If stress is increased, strain will also increase so that their ratio remains constant.

Q5. Answer: (b)

Q6. Answer: (c)

Q7. Answer: (c)

Q8. Answer: (c)

Q9. Answer: (b)

Q10. Answer: (a)

Q11. Answer: (a)

Q12. Answer: (d)

Q13. Answer: (a)

Q14. Answer: (d)

Surface tension of a liquid is due to force of attraction between like molecules of a liquid i.e. cohesive force between the molecules.

Q15. Answer: (d)

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