

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

For All Competitive SSC, Bank, IBPS, UPSC, Railway, IT & Other Govt. Exams

Created By [Careericons](#) Team

Q1. The size of the Respirable Suspended Particulate Matter (R.S.P.M.) in air is

- a) more than 6mm (micron)
 - b) more than 5mm (micron)
 - c) more than 7mm (micron)
 - d) less than 5mm (micron)
-

Q2. When a ship enters a sea from a river, what happens?

- a) It remains at the same level
 - b) It sinks a little
 - c) It rises a little
 - d) It immersed in the bottom of the sea
-

Q3. Paint-gun is based on

- a) Archimedes' principle
 - b) Bernoulli's theorem
 - c) Boyle's law
 - d) Newton's laws of motion
-

Q4. An egg when placed in ordinary water sinks but floats when placed in brine. This is because

- a) density of brine is equal to that of ordinary water
- b) density of brine is less than that of ordinary water

- c) density of brine is greater than that of ordinary water
- d) None of these

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Q5. When an air bubble at the bottom of lake rises to the top, it will

- a) Decreased in size
- b) Maintain its size
- c) Increased in size
- d) Flatten into a disc like shape

Q6. Which of the following elements was first produced artificially?

- a) Plutonium
- b) Francium
- c) Neptunium
- d) Technetium

Q7. The rain drops are spherical because

- a) The air has resistance
- b) The water has surface tension
- c) They fall from big height
- d) None of the above

Q8. Two pieces of metal when immersed in a liquid have equal upthrust on them; then

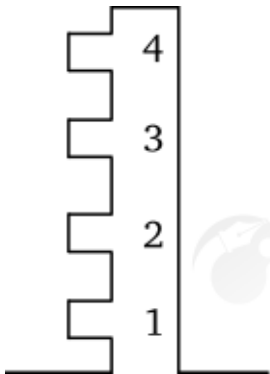
- a) both pieces must have equal densities

- b) both pieces must have equal weights
 - c) both pieces must have equal volumes
 - d) both are floating to the same depth
-

Q9. In cold weather, aquatic animals survive even when water at the top layer of the lake freezes into ice because

- a) They have enough of accumulated oxygen inside them
 - b) Their body structure is such that they can survive without oxygen
 - c) They can breathe in ice
 - d) Water has the highest density at 4°C so underneath the top layer of ice there is a layer of water
-

Q10. Consider the figure of a fountain with four holes, given below. Which one of the holes in the fountain will throw the water farthest?



- a) 3
 - b) 2
 - c) 4
 - d) 1
-

Q11. Water is flowing through a horizontal pipe line having a restriction. Then

- a) pressure will be greater at the restriction.
- b) pressure will be the same throughout the length of the pipe.

- c) pressure will be greater in the wider portion.
 - d) None of these
-

Q12. A and B are two wires. The radius of A is twice that of B. They are stretched by the same load. Then the stress on B is

- a) four times that on A
- b) equal to that on A
- c) two times that on A
- d) half that on A

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Q13. The lift of an air plane is based on

- a) bernoulli's theorem
 - b) Torricelli's theorem
 - c) law of gravitation
 - d) conservation of linear momentum
-

Q14. The clouds float in the atmosphere because of their low

- a) Velocity
 - b) Pressure
 - c) Temperature
 - d) Density
-

Q15. Construction of submarines is based on

- a) Bernoulli's theorem

- b) Archimede's principle
- c) Pascal's law
- d) Newton's laws

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Answers to the above questions :

Q1. Answer: (d)

Q2. Answer: (c)

Q3. Answer: (b)

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Q4. Answer: (c)

Brine due to its high density exerts an upthrust which can balance the weight of the egg.

Q5. Answer: (c)

Q6. Answer: (d)

Q7. Answer: (b)

Q8. Answer: (c)

Q9. Answer: (d)

Q10. Answer: (b)

Q11. Answer: (c)

A ? v ? P ?

(Area A, Velocity v, Pressure P)

Q12. Answer: (a)

$\text{Stress} = \frac{\text{force}}{\text{Area}} \quad ? \quad \text{Stress} \propto \frac{1}{r^2}$

$\frac{S_B}{S_A} = \left(\frac{r_A}{r_B}\right)^2 = (2)^2 \quad ? \quad S_B = 4S_A$

Q13. Answer: (a)

Apply Bernoulli's theorem.)

Q14. Answer: (d)

Q15. Answer: (b)

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