

FORCE OF GRAVITY, SOLIDS AND FLUIDS 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. Consider two hollow glass spheres, one containing water and the other containing mercury. Each liquid fills about one-tenth of the volume of the sphere. In zero gravity environment

- a) mercury forms a layer on the glass, while water floats
 - b) water forms a layer on the glass, while mercury floats
 - c) water and mercury float freely inside the sphere
 - d) water and mercury both form a layer on the glass
-

Q2. Assertion :

The value of 'g' is greater at the equator than at the poles.

Reason :

Radius is more at the equator than at the poles.

- a) If Assertion is correct but Reason is incorrect.
 - b) If both Assertion and Reason are correct, but Reason is not the correct explanation of Assertion.
 - c) If both Assertion and Reason are correct and Reason is the correct explanation of Assertion.
 - d) If Assertion is incorrect but Reason is correct.
-

Q3. Assertion (A) :

Space rocket are usually launched in the equatorial line from west to east

Reason (R) :

The acceleration due to gravity is minimum at the equator.

- a) A is true but R is false
- b) Both A and R are true but R is not the correct explanation of A

- c) Both A and R are true and R is the correct explanation of A
- d) A is false but R is true

Q4. The mass of a body on earth is 100 kg (acceleration due to gravity, $g_e = 10 \text{ m/s}^2$). If acceleration due to gravity on the moon is $g_e/6$, then the mass of the body on the moon is :

- a) 100 kg
- b) 60 kg
- c) $100/6$ kg
- d) 600 kg

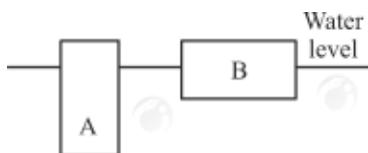
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Q5. Two identical blocks of ice, A and B, float in water as shown in the figure given below. Which one among the following statements in this regard is correct?



- a) Block B displaces a greater volume of water since its submerged end has a greater area in water
- b) Block A displaces a greater volume of water since its submerged end is lower in the water.
- c) Block A displaces a greater volume of water since the pressure acts on a smaller bottom area
- d) The two blocks displace equal volumes of water since they have the same specific gravity and same mass

Q6. Three identical vessels A, B and C are filled with water, mercury and kerosene respectively up to an equal height. The three vessels are provided with identical taps at the bottom of the vessels. If the three taps are opened simultaneously,

then which vessel is emptied first?

- a) Vessel A
 - b) All the vessels A, B and C will be emptied simultaneously
 - c) Vessel B
 - d) Vessel C
-

Q7. When a ship floats on water

- a) the mass of water displaced is lesser than the mass of the ship
 - b) the mass of water displaced is equal to the mass of the ship
 - c) it displaces no water
 - d) the mass of water displaced is greater than the mass of the ship
-

Q8. Which type/types of pen uses/use capillary action in addition to gravity for flow of ink?

- a) Gel pen
 - b) Ballpoint pen
 - c) Fountain pen
 - d) Both ballpoint and gel pens
-

Q9. Assertion :

The tidal waves in sea are primarily due to the gravitational effect of earth.

Reason :

The intensity of gravitational field of earth is maximum at the surface of earth.

- a) Assertion is correct, reason is incorrect
 - b) Assertion is correct, reason is correct; reason is not a correct explanation for assertion
 - c) Assertion is correct, reason is correct; reason is a correct explanation for assertion.
 - d) Assertion is incorrect, reason is correct.
-

Q10. The tendency of a liquid drop to contract and occupy minimum area is due to :

- a) density
 - b) viscosity
 - c) surface tension
 - d) vapour pressure
-

Q11. The value of acceleration due to gravity

- a) is least on equator
 - b) is least on poles
 - c) is same on equator and poles
 - d) increases from pole to equator
-

Q12. When pressure exerted on an enclosed liquid or gas at rest, is transmitted equally in all the directions, is in accordance with:

- a) Archimedes' principle
 - b) Boyle's law
 - c) Pascal's law
 - d) Principle of floatation
-

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Q13. A liquid is kept in a regular cylindrical vessel upto a certain height. If this vessel is replaced by another cylindrical vessel having half the area of cross-section of the bottom, the pressure on the bottom will

- a) be increased to twice the earlier pressure
- b) be reduced to half the earlier pressure

- c) remain unaffected
 - d) be reduced to one-fourth the earlier pressure
-

Q14. Which one of the following statements regarding artificial satellite of the earth is incorrect?

- a) The period of revolution is large if the radius of its orbit is large
 - b) A minimum velocity of 8 km/s is required by a satellite to orbit quite close to the earth
 - c) The orbital velocity depends on the mass of the satellite
 - d) The height of a geostationary satellite is about 36000 km from the earth.
-

Q15. A liquid rises to a certain length in a capillary tube. The tube is inclined to an angle of The length of the liquid column will

- a) remain unchanged
 - b) decrease
 - c) increase
 - d) first decrease and then increase
-

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Answers to the above questions :

Q1. Answer: (b)

Q2. Answer: (d)

Q3. Answer: (b)

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Q4. Answer: (a)

Q5. Answer: (d)

Q6. Answer: (d)

Q7. Answer: (d)

Q8. Answer: (c)

Q9. Answer: (d)

Q10. Answer: (c)

Q11. Answer: (b)

Q12. Answer: (c)

Q13. Answer: (c)

Q14. Answer: (c)

Q15. Answer: (a)

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