

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. A geostationary satellite

- a) must move on an axis in the equatorial plane
 - b) must move about the polar axis
 - c) can move about any axis
 - d) both (b) and (c)
-

Q2. In respect of the difference of the gravitational force from electric and magnetic forces, which one of the following statements is true ?

- a) Gravitational force has a very short range.
 - b) Gravitational force is attractive only, whereas the electric and the magnetic forces are attractive as well as repulsive.
 - c) Gravitational force is stronger than the other two.
 - d) Gravitational force is a long range force, while the other two are short range forces.
-

Q3. An artificial satellite orbiting the earth does not fall down because the earth's attraction

- a) is balanced by the viscous drag produced by the atmosphere
 - b) vanishes at such distances
 - c) is balanced by the attraction of the moon
 - d) produces the necessary acceleration of its motion in a curved path
-

Q4. A block of ice is floating in a beaker containing liquid of specific gravity greater than one. When ice melts completely what happens to the level of liquid in the beaker?

- a) It will rise up
- b) It will go down
- c) It will remain the same as before
- d) It may or may not change depending upon size of beaker

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Q5. Which one among the following is the correct value of the gravitational force of the Earth acting on a body of mass 1 kg?

- a) 89 N
- b) 9.8 N
- c) 8.9 N
- d) 98 N

Q6. A spring balance is graduated on sea level. A body of mass 1 kg is weighed at consecutively increasing heights from the earth's surface, then what would be the weight indicated by the balance?

- a) Weight will remain same
- b) Weight will go on decreasing continuously
- c) Weight will go on increasing continuously
- d) Weight will first increase and then decreases

Q7. Flow velocities in an incompressible fluid can be measured with which one of the following?

- a) Strain gauge
- b) Venturi tube
- c) Barometer

d) Manometer

Q8. Two objects of different masses falling freely near the surface of moon would

- a) experience forces of same magnitude
 - b) have different accelerations
 - c) have same velocities at any instant
 - d) undergo a change in their inertia
-

Q9. Assertion (A) :

With the increase of temperature, the viscosity of glycerine increases.

Reason (R) :

Rise of temperature increases kinetic energy of molecules.

- a) A is true but R is false
 - b) Both A and R are true but R is not a 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
-

Q10. Why do two ice blocks join to form one block when pressed together?

- a) Melting point of ice remains unchanged with increase in pressure
 - b) Melting point of ice increases with increase in pressure
 - c) Melting point of ice is lowered with increase in pressure
 - d) Melting point of ice is 0°C
-

Q11. If the moon is to escape from the gravitational field of the earth forever, it will require a velocity

- a) slightly more than 11.2 km/s
- b) less than
- c) 11.2 km/s
- d) 22.4 km/s

Q12. Raw mangoes shrivel when pickled in brine. The phenomenon is associated with

- a) increase of surface tension of fluid
- b) reverse osmosis
- c) osmosis
- d) decrease of surface tension of fluid

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Q13. Consider a satellite going round the earth in a circular orbit. Which of the following statements is wrong?

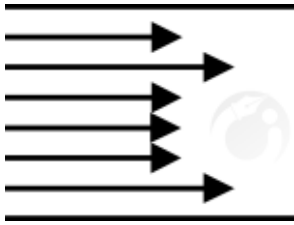
- a) It is acted upon by a force directed away from the centre of the earth which counter-balances the gravitational pull.
- b) It is moving with constant speed
- c) It is a freely falling body.
- d) It is an accelerated motion

Q14. A body weighs 5 kg on equator. At the poles it is likely to weight

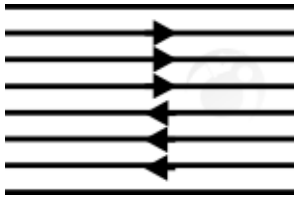
- a) 0 kg
- b) less than 5 kg but not zero
- c) 5 kg
- d) more than 5 kg

Q15. A liquid is flowing in a streamlined manner through a cylindrical pipe. Along a section containing the axis of the pipe, the flow profile will be : (a) (b) (c) (d)

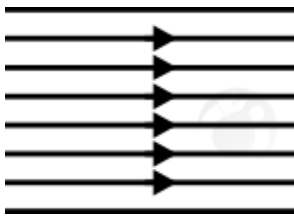
- a)



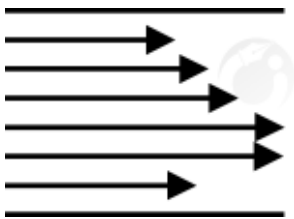
b)



c)



d)



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Answers to the above questions :

Q1. Answer: (a)

Q2. Answer: (b)

Q3. Answer: (d)

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Q4. Answer: (a)

Q5. Answer: (b)

Q6. Answer: (b)

Q7. Answer: (b)

Q8. Answer: (c)

Q9. Answer: (d)

Q10. Answer: (c)

Q11. Answer: (c)

Q12. Answer: (c)

Q13. Answer: (a)

Q14. Answer: (d)

Q15. Answer: (c)

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