

MOTION UNDER GRAVITY BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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Created By [Careericons](#) Team

Q1. What will happen if an object is thrown into space with the speed of 8 km/s?

- a) It will return to Earth
 - b) The object will go into space
 - c) It will rotate into the orbit of Earth
 - d) It will burst out
-

Q2. A girl is swinging on a swing in sitting position. When the girl stands up, the period of the swing will

- a) Be longer
 - b) Be shorter
 - c) Depends on the height of the girl
 - d) Not change
-

Q3. A batsman hits a cricket ball which then rolls on a level ground. After covering a short distance, the ball comes to rest. The ball slows to a stop because

- a) Velocity is proportional to the force exerted on the ball
 - b) The batsman did not hit the ball hard enough
 - c) There is a force on the ball opposing the motion
 - d) There is no unbalanced force on the ball, so the ball would try to come to rest
-

Q4. Satellite is kept moving in its orbit around the Earth; it is due to

- a) Centripetal force
- b) Centrifugal force

- c) Gravitational force or lack of it
- d) Some other forces

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Q5. If a person sitting in a lift, then when will he feel that his weight gets increased?

- a) When the elevator going down expeditiously
- b) When the elevator going upward expeditiously
- c) Going upward with constant velocity
- d) Going downward with constant velocity

Q6. If the distance between the Earth and the Sun were twice what it is now, the gravitational force exerted on the Earth by the Sun would be

- a) Four times as large as it is now
- b) Twice as large as it is now
- c) One-fourth of what it is now
- d) Half of what it is now

Q7. Why do pendulum clocks usually lose time in summer?

- a) Due to friction caused by coils
- b) Due to longer days in summer
- c) The length of the pendulum increases, increasing the time period of unit oscillation
- d) The weight of the pendulum change in summer

Q8. Two balls A and B are of 10 kg and 1 kg, respectively. They are dropped simultaneously from a height of 20 m. Which of the following is correct?

- a) B will reach the ground first
 - b) A will reach the ground first
 - c) Both A and B will reach the ground at the same time
 - d) None of the above
-

Q9. If the gravitational force of the Earth suddenly disappears, which are of the following will be the correct consequence?

- a) The mass of the object will become zero but the weight will remain the same
 - b) The weight of an object will become zero but the mass will remain the same
 - c) Both the mass and the weight of the object will become zero
 - d) The mass of the object will increase
-

Q10. Earth's escape velocity is

- a) 21.1 km/s
 - b) 15.0 km/s
 - c) 7.0 km/s
 - d) 11.2 km/s
-

Q11. If the radius of the Earth were to shrink by one percent, its mass remaining the same, the value of g on the Earth's surface would

- a) Increase by 2%
 - b) Increase by 0.5%
 - c) Decrease by 0.5%
 - d) Decrease by 2%
-

Q12. The Earth travels in its orbit at a speed of approx. 4,400 km per hour. Why do we not feel this high speed?

- a) Our relative speed with respect to the Earth along the Earth's orbit is zero

- b) Because we are too small compared to the size of the Earth
- c) The solar system as a whole is also moving
- d) The gravity of the Earth constantly pulls us towards the Earth's centre

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Q13. The acceleration due to gravity of a destructive Earthquake will be

- a) $>750 \text{ cm/s}^2$
- b) $>550 \text{ cm/s}^2$
- c) $>950 \text{ cm/s}^2$
- d) $>980 \text{ cm/s}^2$

Q14. The two balls of iron and wood of same weight dropped from the same height, then

- a) One falls first, another falls later
- b) They reach the ground (Earth) at the same time
- c) The wooden ball falls later
- d) They reach the ground after some gap

Q15. If an apple is released from an orbiting spaceship, it will

- a) Move at a lower speed
- b) Fall towards the Earth
- c) Move along with the spaceship at the same speed
- d) Move at a higher speed

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Answers to the above questions :

Q1. Answer: (a)

Q2. Answer: (b)

Q3. Answer: (c)

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Q4. Answer: (a)

Q5. Answer: (b)

Q6. Answer: (c)

Q7. Answer: (c)

Q8. Answer: (c)

Q9. Answer: (b)

Q10. Answer: (d)

Q11. Answer: (a)

Q12. Answer: (a)

Q13. Answer: (d)

Q14. Answer: (c)

Q15. Answer: (c)

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