

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

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Q1. If an object is falling from above, its weight remains

- a) Same
 - b) Zero
 - c) Change
 - d) None of these
-

Q2. Astronauts in space cannot stand erect. This is because, in space

- a) Viscous forces of the atmosphere are very strong
 - b) There is no gravity
 - c) Solar wind exert an upward force
 - d) Atmospheric pressure is very low
-

Q3. Who gave the theory of gravity?

- a) Charles Babbage
 - b) Charles Newton
 - c) Isaac Newton
 - d) John Adams
-

Q4. There is no atmosphere on the Moon because

- a) It receives light from the Sun
- b) It is near to the Earth
- c) It revolves around the Earth

d) The escape velocity of gas molecules on it is less than the root mean square velocity here

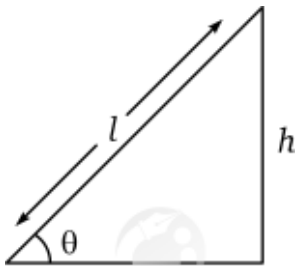
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Q5. A smooth plane inclined at an angle θ with the horizontal as shown in the given figure. A body starts from rest and slides down on the inclined surface. The time taken by the body to reach the bottom is



- a) $\sqrt{2l}/g$
- b) $\sqrt{2h}/g$
- c) $1/\{\sin\theta\}\sqrt{2h}/g$
- d) $\sin\theta\sqrt{2h}/g$

Q6. The time period of a pendulum

- a) Depends on its length
- b) Depends on the mass
- c) Depends on time
- d) Depends on temperature

Q7. The mass of a body on the Earth is 100 kg (acceleration due to gravity, $g_e = 10 \text{ m/s}^2$). If acceleration due to gravity on the Moon is ($g_m = 1.6 \text{ m/s}^2$), then the mass of the body on the Moon is

- a) 60 kg

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

Q8. A Geosynchronous satellite continuously active in its orbit due to centrifugal force which is obtained by

- a) The gravitational force on the satellite by the Earth
 - b) The rocket engine that propelled the satellite
 - c) The gravitational force on the satellite by the Sun
 - d) The gravitational force on the Earth by satellite
-

Q9. Who among the following anticipated Newton by declaring that all things gravitate to the Earth?

- a) Varahamihira
 - b) Aryabhatta
 - c) Buddhagupta
 - d) Brahmagupta
-

Q10. Consider the following statements. A Simple Pendulum is set into oscillation. Then,

- the acceleration is zero when the bob passes through the mean position.
- in each cycle the bob attains a given velocity twice.
- both acceleration and velocity of the bob are zero when it reaches its extreme position during the oscillation.
- the amplitude of oscillation of the simple pendulum decreases with time.

Which of these statements are correct?

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

Q11. The weight of human body is

- a) Same at every place on the Earth's surface
- b) Maximum at the poles
- c) Maximum at the equator
- d) More on the mountains than planes

Q12. A ball is dropped from the top of a high building with a constant acceleration of 9.8 m/s^2 . What will be its velocity after 3 s?

- a) 19.6 m/s
- b) 9.8 m/s
- c) 29.4 m/s
- d) 39.2 m/s

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Q13. Which of the following pairs is correctly matched?

Column I	Column II
A. Radium	1. Alexander Fleming
B. Penicillin	2. Madam Curie
C. X-ray	3. Edward Jenner
D. Smallpox	4. W.K. Roentgen

Choose the correct option from the codes given below for (A), (B), (C), and (D).

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

Q14. If pieces of equal size of woods, wax and iron falling from a same height, which one will reach the surface of the Earth first?

- a) Wax
- b) Wood
- c) Iron
- d) Reach at the same time

Q15. Assertion (A):

The weight of human being on the Moon is $\frac{1}{6}$ in comparison to Earth.

Reason (R):

The Moon does not have gravity like Earth.

Select the answer from following codes.

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

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Answers to the above questions :

Q1. Answer: (a)

Q2. Answer: (b)

Q3. Answer: (c)

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Q4. Answer: (d)

Q5. Answer: (c)

Q6. Answer: (a)

Q7. Answer: (c)

Q8. Answer: (a)

Q9. Answer: (d)

Q10. Answer: (c)

Q11. Answer: (b)

Q12. Answer: (c)

Q13. Answer: (b)

Q14. Answer: (d)

Q15. Answer: (c)

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