MCQ Set 2 from Gravitation

MCQ on Gravitation>> This is the second set of multiple choice questions with answers from chapter gravitation. These objective questions are very useful for any competitive examinations like SSC, CGL, CHSL Railway Group C & D and obviously for UPSC or IAS. So my dear aspirants i hope this will help you for preparing for govt job exams.

Before trying these questions as a quiz I would suggest you to read the important general knowledge from gravitation from the link given bellow.

Gravitation - Physics > GK

Q.1 Gravitation force between two masses m_1 and m_2 is proportional to -

A: m_1+m_2

B: m_1-m_2

C: $m_1 \div m_2$

D: $m_1 \times m_2$

Answer

$m_1 \times m_2$

Q.2 Two masses m_1 and m_2 are kept at a distance R. Gravitation force between them is proportional to -

A: R

B: 1/R

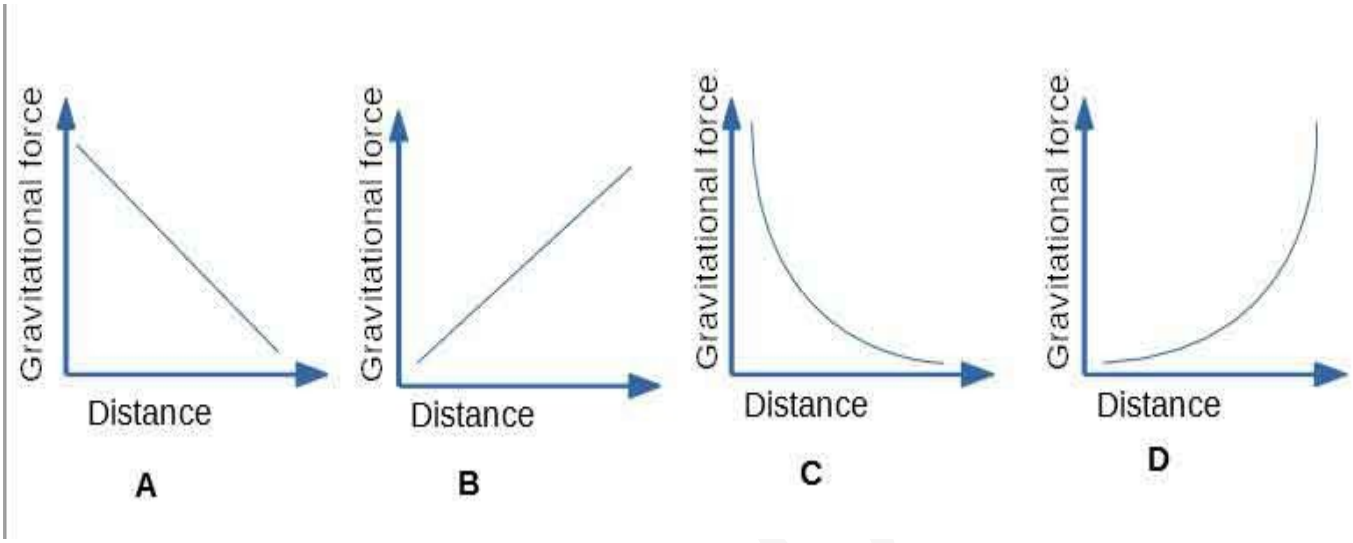
C: $1/R^2$

D: R^2

Answer

$1/R^2$

Q.3 Observe the following figures and answer the question.



Which figure showing gravitational vs distance graph is correct?

A: option A
B: option B
C: option C
D: option D

Answer

Option C is correct.

Q.4 Gravitational potential is -

A: proportional to distance
B: inversely proportional to distance
C: proportional to the square of the distance
D: inversely proportional to the square of the distance

Answer

inversely proportional to distance.

Q.5 What is the escape velocity of moon?

A: 2.00 Km/sec
B: 2.38 km/sec
C: 3.28 km/sec
D: 2.83 km/sec

Answer

2.38 km/sec

Q.6 What is the escape velocity of sun?

A: 618 km/sec
B: 200 km/sec
C: 322 km/sec
D: 465 km/sec

Answer

618 km/sec

Q.7 If we through a ball upward then gravitational acceleration on the ball will be -

A: zero
B: positive
C: negative
D: negligible

Answer

negative

Q.8 If we double the distance between two objects, gravitational force will be

A: double
B: half
C: one fourth
D: 4 times greater

Answer

one fourth

Q.9 Which of the following statement(s) is/are correct?

1> value of gravitational acceleration decreases with height or depth from earth's surface.
2> gravitational acceleration is maximum at pole.
3> value of gravitational acceleration increase due to rotation of earth.
4> If angular speed of earth become 17 times its present value, a body on the equator becomes weightless.

A: Only option 1 is correct;
B: Options 1 and 2 are correct;
C: Option 1, 2 and 3 are correct;
D: options 1, 2 and 4 are correct;

Answer

Options 1, 2 and 4 are correct

Q.10 If we double the mass of an artificial satellite then its orbital speed -

A: will be double:
B: will be half of its initial speed;
C: will be one fourth of its initial speed:
D: is independent of its mass;

Answer

Ans D independent of its mass

<<⇐ Previous set MCQ on Gravitation