

Q.8 Why law of gravitation is important to us?

Ans: Law of gravitation is important to us because it is used to calculate force of attraction between two masses. It is used to calculate the mass of Earth.

Q.9 Explain the law of gravitation?

Ans: See Q. no.1 Long Question

Q.10 How the mass of Earth can be determined?

Ans: See Q. no.3 Long Question

Q.11 Can you determine the mass of our moon? If yes, then what you need to know?

Ans: Yes we can determine the mass of the moon by same method used to measure the mass of the Earth with the help of law of gravitation. The formula is:

$$M_m = \frac{gR^2}{G}$$

From the above relation it shows that we require,

g = gravitational acceleration on the surface of moon = 1.62 ms^{-2}

R = Radius of moon = $1.74 \times 10^6 \text{ m}$

G = Gravitational constant = $6.67 \times 10^{-11} \text{ N m}^2 \text{ kg}^{-2}$

Q.12 Why does the value of g vary from place to place?

Ans: See Q. no.4 Long Question

Q.13 Explain how the value of g varies with altitude.

Ans: See Q. no.4 Long Question

Q.14 What are artificial satellites?

Ans: Scientists have sent many objects into space. Some of these revolve around the Earth. These are called artificial satellites.

Large numbers of artificial satellites have been launched in different orbits around the Earth. They take different time to complete their one revolution around the Earth depending upon their distance h from the Earth.

Q.15 How Newton's law of gravitation helps in understanding the motion of satellites.

Ans: The motion of satellites is due to force of gravitation and this gravitational force is provided by Earth. As we know that Newton gave the law of gravitation. So, we can say that Newton help us in understanding the motion of satellites.

Q.16 On what factors the orbital speed of a satellite depends?

Ans: As we know that

$$v_s = \sqrt{g_h (R + h)}$$

So, we can say that orbital speed depends upon the gravitational acceleration and distance between the center of earth and the satellite.

Q.17 Why communication satellites are stationed at geostationary orbits?

Ans: The satellites in geostationary orbits remain all the time in front of target part of Earth so that direction of receiver's dish do not to be changed.

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