



Name: _____ Class: _____ Roll No. _____
Subject: _____ Test No. _____ Date: _____

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(4) NUMERICAL

Given Data:-

- Speed = $v = 1.01 \text{ km/s}$
- radius = $R = 390400 \text{ km}$

To find:-

one revolution = ?

Solution:-

$$T = \frac{2\pi R}{v} = \frac{2\pi \times 390400}{1.01} \times \frac{1}{24 \times 60 \times 60} \times 1 \text{ day}$$

$$= 27.5 \text{ days.}$$

(6) NUMERICAL

Given data:-

- diameter = $v = 2.050 \text{ m}$
- angle = $\theta = 6.6 \times 10^{-9} \text{ radian}$

To find:-

distance = $S = ?$

Solution:-



$$s = \frac{v}{r}$$

$$s = 2.050 \times 6.6 \times 10^{-9}$$

$$s = 1.353 \times 10^{-8} \text{ ms}^{-1}$$

(7)

NUMERICAL

Given data:-

- Radius of moon = $R = 1.74 \times 10^6 \text{ m}$
- distance = $r = 3.85 \times 10^8 \text{ m}$

To find:-

Angular momentum = $L = ?$

Solution:-

$$L = I\omega$$

$$L_g = \frac{2}{5} MR^2 \omega - i$$

$$L_{moon} = \frac{2}{5} MR^2 \omega - ii$$

$$\frac{L_g}{L_{moon}} = \frac{2 MR^2 \omega}{5 MR^2 \omega} = \frac{2 R^2}{5 R^2}$$

Putting the values we have.

$$L = \frac{2 \times (1.74 \times 10^6)^2}{5 \times (3.85 \times 10^8)^2}$$

$$L = 8.2 \times 10^{-4}$$

(5) HEIGHT OF GEOSTATIONARY

$$r = \left[\frac{GMT^2}{4\pi^2} \right]^{1/3}$$

$$h = R + \left(\frac{GM}{4\pi^2/T^2} \right)^{1/3}$$

$$h = -6.4 \times 10^6 + \left(\frac{6.67 \times 10^{-11} \times 6 \times 10^{24}}{4\pi^2/T^2} \right)^{1/3}$$

$$T = 24 \text{ hours}$$

$$= 24 \times 60 \times 60$$

$$h = -6.4 \times 10^6 + 42.31 \times 10^6$$

$$= 35.91 \times 10^6 \text{ m}$$

$$h = 36000 \text{ km}$$

(6) SPHERE

When sphere rolls down the same inclined plane without sliding its gravitational P.E changes to kinetic energy of rotation then to translation.