	Name !- Maryam Zahra
-	Name 1- Maryam Zahra Subject 1- Physics
-4-	0 # 1
-	Kinetic Energy:
	consider a sphere volling without
	slipping down along an inclined plane so
	that it has both translational as well
	as sotational motion So it will have both
	translational and rotational K.E.
	K.E. = 1 mv
	2
T	k.Epot = L Iw2
Ī	2
	For sphere I = 2, mo2
	. 5
	K. Erot = $1. \text{I} \omega^2 = 1. \left(2 \text{mr}^2\right) \omega^2$
1	2 2 5
	K. Erot = 1 mr2w2 = 1:m (rw)2
	5 5
	k.Erot = L. mv2
	5
	Total K.E of the sphere can be calculated a
	Total K.E of the sphere can be calculated a  KET = KEtran + KErot = 1 mv2 + 1 mv2
T	

Calculation For Speed: som the top of inclined plane of and reaches the bottom with speed According to the law of conservation PE at the top = KE at bottom 10.9h = v2 = > [vx= 10.9h V = J9R = 19.8 x 6.4 x 106

State of the same		
-	V= 162.72 x106	
-	V=7.9 x103m/s	-
-	V= 7.9 km/s.	_
	Q # 4	
	T = 27R = 2x3.14 x390400kmx1 x 1day	
	1.01kms 60x60x29	-
	= 2 x3.14x390400kmx (0.99009) x 1day	
	86.400	
-	2 27.5 days.	
	Q # 5	
i	Final the height h of G.S:	
	G = 6.673 x 10" Nm2/kg2 9 M = 6x 10 kg	
-	T= 3.14 , T= 24hr = 24 x 3600s = 86400 sec	
	$r = \frac{GMT^2}{3}$	- 10 - 36
	1 4x2	
	~ = 6.673 x10"x6 x10" x (86400) 1/3	
-	4.(3.14)2	
	r = 4.23 x 107m	
Ī	v= 40.3 x 10°m	
1	Allitude	
	Here r = R+h	
ļ	h = r - R	
	h = 42.3 x/06 - 6.4 x 106	
	h = 35.9 x 10 m	
	$h = 3.59 \times 10^{7} m$	-
igh.		-

Signature = $S = 2.50 \text{ m}$ Distance = $r = 3.8 \times 10^{3} \text{ m}$ Finds Angle = $0 = 2$ $S = r\theta$ $\theta = S = 2.50$ $r = 3.8 \times 10^{8}$ $\theta = 3.8 \times 10^{8}$ $\theta = 6.57 \times 10^{8} = 2.57 \times 10^{9}$ $\theta = 6.6 \times 10^{-9} \text{ radian}$ Q #1. 7  Given:  (Distance b/w moon & earth) = $r_0 = 3.85 \times 10^{8} \text{ m}$ (Radius of moon) = $r_0 = 3.85 \times 10^{8} \text{ m}$
Diameter = $S = 2.50 \text{ m}$ Distance = $V = 3.8 \times 10^{8} \text{ m}$ Finds Angle = $0 = 2$ $S = r\theta$ $\theta = S = 2.50$ $r = 3.8 \times 10^{8}$ $\theta = 2.5 \times 10^{8}$ $\theta = 6.57 \times 10^{8} = 2.57 \times 10^{9}$ $\theta = 6.6 \times 10^{-9} \text{ radian}$ Given:  (Distance blue moon & earth) = $V = 3.85 \times 10^{8} \text{ m}$ Radius of moon) = $V = 1.74 \times 10^{6} \text{ m}$
Finds Angle = $V = 3.8 \times 10^{8}$ Finds Angle = $V = 2$ $V = 8 = 3.8 \times 10^{8}$ $V = 3.8 \times 10^{8}$ $V = 3.8 \times 10^{8}$ $V = 6.5 \times 10^{8}$ $V = 6.5 \times 10^{8}$ $V = 6.5 \times 10^{9}$ $V = 6.5 \times 10^{9}$ $V = 6.5 \times 10^{-9}$ $V = 6.5 \times 10^{-9$
Finds Angle = $0 = ?$ $S = r\theta$ $\theta = S \implies 2.50$ $r = 3.8 \times 10^8$ $\theta = 6.5 \times 10^8 \implies 6.57 \times 10^9$ $\theta = 6.6 \times 10^{-9} \text{ radian}$ Given:  (Distance b/w moon & earth) = $r_0 = 3.85 \times 10^8 \text{ moon}$ (Radius of moon) $= 2 \text{ rs} = 1.74 \times 10^6 \text{ moon}$
$S = r\theta$ $\theta = S = 7.2.50$ $r = 3.8 \times 10^{8}$ $\theta = 3.8 \times 10^{8}$ $\theta = 6.57 \times 10^{8} = 3.6.57 \times 10^{9}$ $\theta = 6.6 \times 10^{-9} \text{ radian}$ Given:  (Distance b/w moon & earth) = $r_0 = 3.85 \times 10^{8} \text{m}$ (Radius of moon) = $r_0 = 3.85 \times 10^{8} \text{m}$
$9 = 3.8 \times 10^{8}$ $9 = 3.8 \times 10^{8}$ $3.8$ $9 = 6.57 \times 10^{8} \Rightarrow 6.57 \times 10^{9}$ $9 = 6.6 \times 10^{-9} \text{ radian}$ Given:  (Distance b/w moon & earth) = $r_0 = 3.85 \times 10^{8} \text{m}$ (Radius of moon) = $r_0 = 1.74 \times 10^{6} \text{m}$
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$\theta = 3.5 \times 10^{8}$ $3.8$ $\theta = 657 \times 10^{8} = 2.6.57 \times 10^{9}$ $\theta = 6.6 \times 10^{-9} \text{ radian}$ $\theta = 6.6 \times 10^{-9} \text{ radian}$ Given:  (Distance b/w moon & earth) = $r_0 = 3.85 \times 10^{8} \text{m}$ (Radius of moon) = $r_0 = 3.85 \times 10^{8} \text{m}$
3.8  0 = 657 x10 <sup>8</sup> => 6.57 x10 <sup>9</sup> 0 = 6.6 x10 <sup>-9</sup> radian.  Q # 7  Given:  (Distance b/w moon & earth) = ro = 3.85x10 <sup>8</sup> m  (Radius of moon) = rs = 1.74 x10 <sup>6</sup> m
0 = 657 x10 <sup>8</sup> => 6.57 x10 <sup>9</sup> 0 = 6.6 x10 <sup>-9</sup> radian.  Q #17  Given:  (Distance b/w moon & earth) = ro = 3.85x10 <sup>8</sup> m  (Radius of moon) = rs = 1.74 x10 <sup>6</sup> m
0 = 6.6 x 10 <sup>-9</sup> radian.  Q #1. 7.  Given:-  (Distance b/w moon & earth) = ro = 3.85 x 10 <sup>8</sup> m  (Radius of moon) = rs = 1.74 x 10 <sup>6</sup> m
Given: -  (Distance b/w moon & earth) = ro = 3.85 x 108m  (Radius of moon) = rs = 1.74 x 106m
Given: -  (Distance b/w moon & earth) = ro = 3.85x108m  (Radius of moon) = rs = 1.74 x106m
(Distance b/w moon & earth) = ro = 3.85x108m (Radius of moon) = rs = 1.74x106m
(Radius of moon) 2 rs = 1.74 x106m
2 13 = 1.79 X10 m
Find: Spin angular Mon Ls = ?
성이 그는 10년에 가는 이 그를 살고 있으면 가장 하는 것이다. 그는 것이 없는 것이 없는 것이 없는 것이다. 그런 그는 것이 되는 것이 되는 것이 되는 것이다. 그는 것이 없는 것이 없는 것이다.
For coin a sula mon Lo
Fox spin angular mon = ls = Is ws
tor osbital angular mon = Lo = Io wo
Lo Lo.Wo
is = 2 mo = w Uside of moon faces the earth)
Is = 2 mai (spin motion)

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