

LGS GROUP OF COLLEGES A PROJECT OF LAHORE GRAMMAR SCHOOL

Name: Meena bloogsum	Class: 1.C.5 12 Bar Roll No.
Subject: Physics	Test No. assing ment Date: 18/11/24
	B O O O O O Marks Obtained
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	1 south prostage D.
(ASSIGNMENT	ONE PHY) took soft notes
dogram att per moderators of the	Burney stonders who so with mader
Question one :- projections wit -	to one aft is (duplace decorage) and
when an object solls down and	incline, its potential energy at the top
demak so atted dri dravno (Apm)	Chosens Sitemid Vanishation bound landites
at the bottom is some to	in terrigo att pon eco som
· ·	The when the elevator acclarate
	Thoug = mR3 : brine berings
· Using energy consenation, we find	the hoop's speed at the bottom to be:-
Youp 2	Joh , wot gotesco,
to the sphere to see stillation	gott 20 T boing lotides gott look I
· The spheres moment of inesting	is Isphere = R/5 mg2
	10/7 gh Jan 2 x 101 - 2 mod 10.1 .v
Sinol Anguerists 2 tologo of	8 x x & =7
So the spheres speed at the	2 bottom of the indine Kener = 10 gh
28.1 Days	
(Question two	86, 4:
To Rook the contral velocity	to earth we se Voition = RGM
G= 6.674 × 10-" Nome /kg.	7 15
M= 5.972 × 1024 kg	
R= 6371 × 10'm	
Plugging in Values: - Ventical:	2x6674×10-11×5972×1024 211.2 bon/s
)	J 6.371 x 106



Meeter Tibbasum

Lich St. from wen exercit
Thus the escape (coitical velocity for earth is 11.2 km/s. But if
you sound it, you might see 7.9 lands in specific contexts ag Ear
lower altitudes or special conditions, However the standard velocity
lower or wards on section and the times we are are and the section of the section
is closer to 11.2 km/s.
Question three:-
(C)
when the elevator is at took the persons weight is winning
when the devator accolarate appeared with accolaration a=g, the normal
교육적(경기 경기 경기 교기 기업
force (apparent usignt) is the sun of the gravitational term and the
aforest die toothe opinaid accelarations and ella toois no min
(mgh) convert into both apinisasiopin + pin = Merina linetic energy
Since w= mg, the apparent weight becomes 2W. miled with to
This when the elevator accelerates upword with acceleration of the
· The hope money of inchia is Thoug : will a from the property
- sel of mostod all to beage agood all boil an milionomo young ones.
, Overstion fow :-, Hot , god
To find the orbital period T of the easterline use the Romba
s gen als - sollet 200 de transca endas sti .
of 8=1390400 Maris = 390400 x103/2 soft Lord on mino motoround money mist.
4. 1.01 km/s = 1.01 x 103 m/s 105 01 1 2 mg
7= 27 x 390400×103 2.43 x105 seconds
1.01 × 103
No Converting to Days at 20 mothed out to topge sorrige with all
T= 2.43 × 106 2 28.1 Days
86,400
1-10cut poites ()
So, the sattelite will complete one verolition in 28.1 Days of
57
G. 6674x10" pora /10:
pol POV x SEP. 2 M

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21110	eni	IVAL	ne.

, Question five:	Duestin Seesie
To find the height of a gostali	many sability we use 1917 of
T= (GMT2)	Y3 -: medumm whom
To final the height of a gentlation $\tau = \frac{GMT^2}{4\pi z}$	- 24 hors or 86400 sec
M= 5.972 ×1024 100	SOI & MID To 3.1416 Lothers 1
Sution:- r= (6.674x0-11	4× 9.8696 MOLANDA NOSA × 1.464×109) 1/3
	4x2 - mothermon volume trees
30 8= (6.674 x 10	"x5.972x1020 x7.464x109)13
posterior de la Company de la	4 x 9.8696 mid x 50.5 mages
8 = (7.498× 102	- side 9 (8
	OSPI POLERI Lotinal
The height above outhers surface is t	
	Joen Parenty
The state of the s	The rate is appearably 1930. IF
, h= 35,896 km	
The height of a geostationary soft	
Oversion six:-	
. To find the Distance to the M	oun, we use
Distance = diamete	
	a
Given:-	
Diameter at man = 2.50 cm	
Dirergance angle = 6.6 × 10-9 addians	
Solution :-	
	n = 379,000 km
6.6×10-9	
Danis	
Amswey:-	279,000 km
The distance to the main is	approx 379,000 hm.



mirrodulas.

Overtion Seven:	
To find salio of main's ashital angular r	and with the
-: motosman valleno	would see of mountained
angular mansular -: argular mansular -	501 mer "-01x Pfo.d: D
	. Olythodes
Londital am x to 23 x 163 x 3.85 x 108 m	s (2) PSOIX SFP. 8 : M
es spin angular momentum :- 77)== == meitesia
Lsoin Post Post	
Lapin C. S. OZ x 107m 283.7 x 7	× 10 sec
3) Ratio - 21 (3301 - 3P.)	
(2. 75) 4	8 = (7.
Lossital 2 1.93 × 100 2 1930 mol 045 -	o= 42
Answer:	The height was each south
The natio is appropriately 1930. 1953-025	ha 42
mol 208 ces	N= 35,
and safellite to appear 357 869 Johns.	The height of a goodstonion
	Circle mortago
the Moore we use	at sometaid set bond 5
crosm set to versions.	- Distance
D	
Contract to the contract of th	
	Currerin)
	moces & man to valonisa
zacibos!	Distributes angle = 6.6 x 10-

mologo PF8 . m801 PS