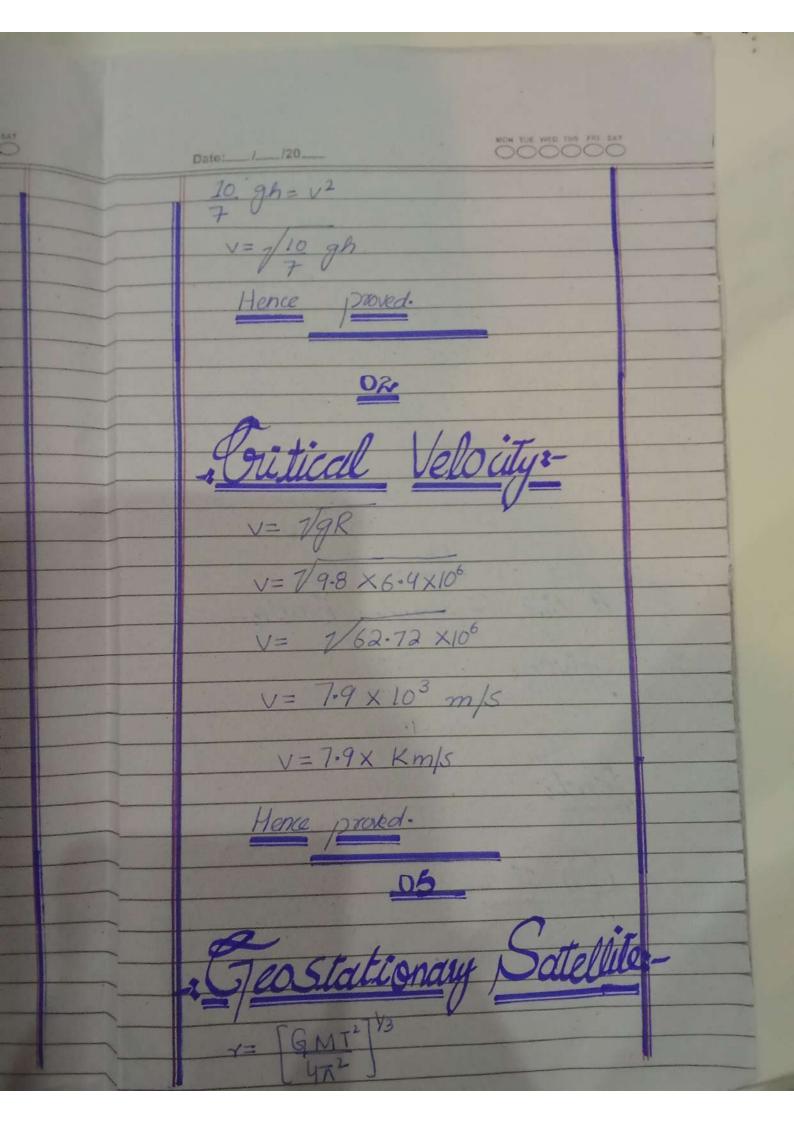
Date/8 /11 /2024 MON TUE WED THIS FRI SAT USHAAL DAMAR. Physics

Dat 7 m/2 K.E at botten 10gh= 7v2



NON THE WED THE FRE SAT $G = 6-673 \times 10^{-11} \text{ Nm}^2 / kg^2$ $M = 6 \times 10^{24} kg$ T = 3.14T= 24 hr = 86400 Sec 7= 42.3 ×106 m Y= R+h h= 42.3 ×106- 6.4×106 h= 35.9 × 106 m h = 3.59 x 107 m A tiny laser ---- Earth:

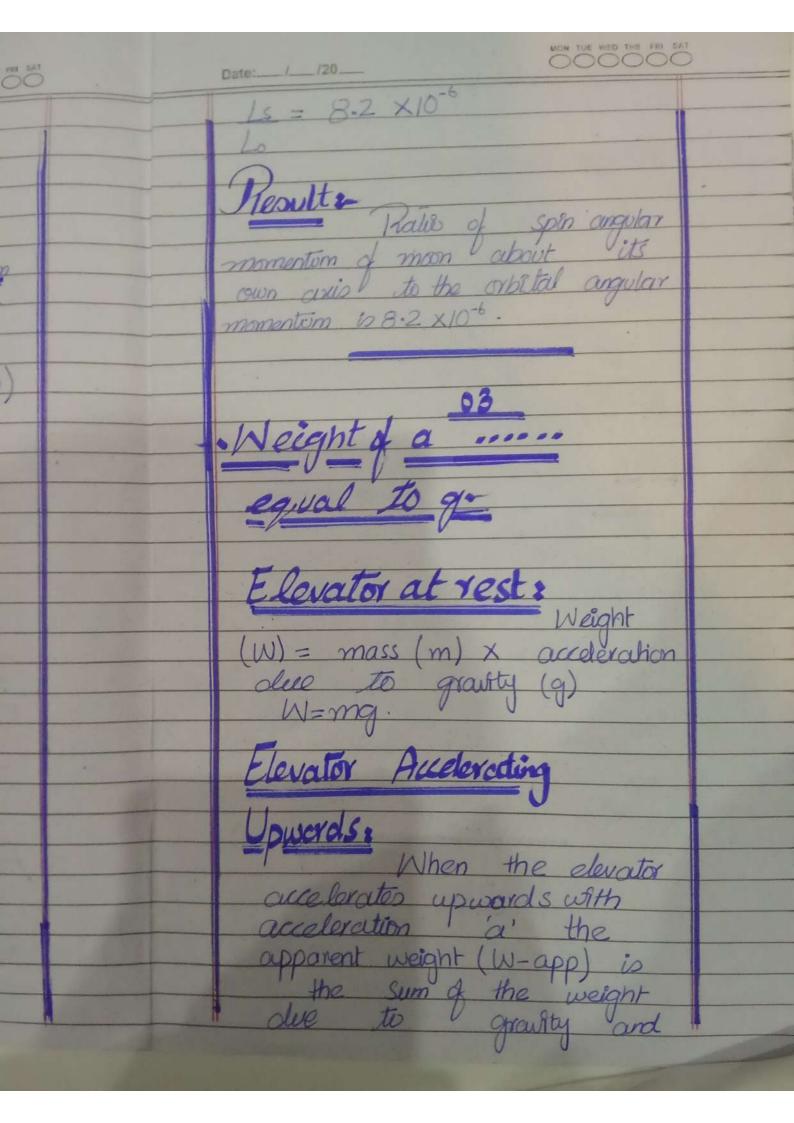
Given:

S = R. So m 0 = 6.6×1094 kg lution:
S= 10 7= 2.50 6.6 × 10-9

MON TUE WED THS FRI SAT

Date://20	
Y= 0.37 X10-9	
7= 3.8×10-9	
	-
07	7
The moon orbits 10 m.	
Solutions	
Given:	
(Distance b/w moon and Earth)=10	
Tarriac 4	
$= 3.85 \times 10^8 m$	
10 1 70 1106	
(Radius of mon) = 1/5 = 1.74 X10 m	
Required:	
Spin angular Mom = = 45 = ?	
Spin angular Mom = = Ls =? Orbital angular Mom Lo	
Formula:	
for spin angular mom = Ls = Is ws	
for orbital angular mom = Lo = lo wo	

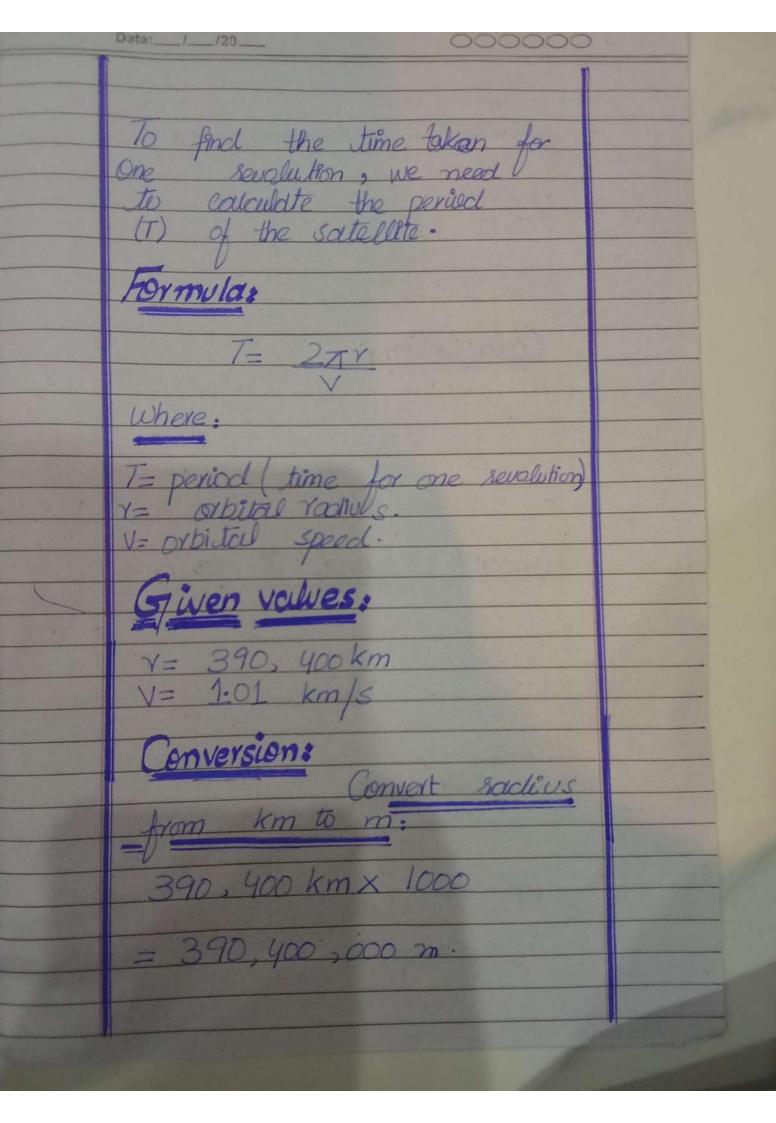
MON THE WED THE FRE SAT Date: = 0.0817 × 1012-16 = 0.0817 X10-4 = 8.17 ×10-6



the weight due to acceleration: W-app = mg+ ma Given that the acceleration of is equal to 'g', we substitute: N-app = mg+ mg W-app - 2 mg. Since, W= mg, we can We- app= 2W Therefore, when the elevator

Therefore, when the elevator acceleration upwards with acceleration egyal to g' the apparent weight of the person is indeed 2W, twice their weight when the elevator is sest.

04



MON TUE WED THS FRI SAT Date:_ Convert speed from km/s 1.01 km/s x 1000 = 1010 m/s Calculation: T= 21 × 390, 400, 000 m T= 2,433211 seconds. Convert seconds to days: T = 2,433,211 $(60 \times 60 \times 24)$ the sate ellere complete one

