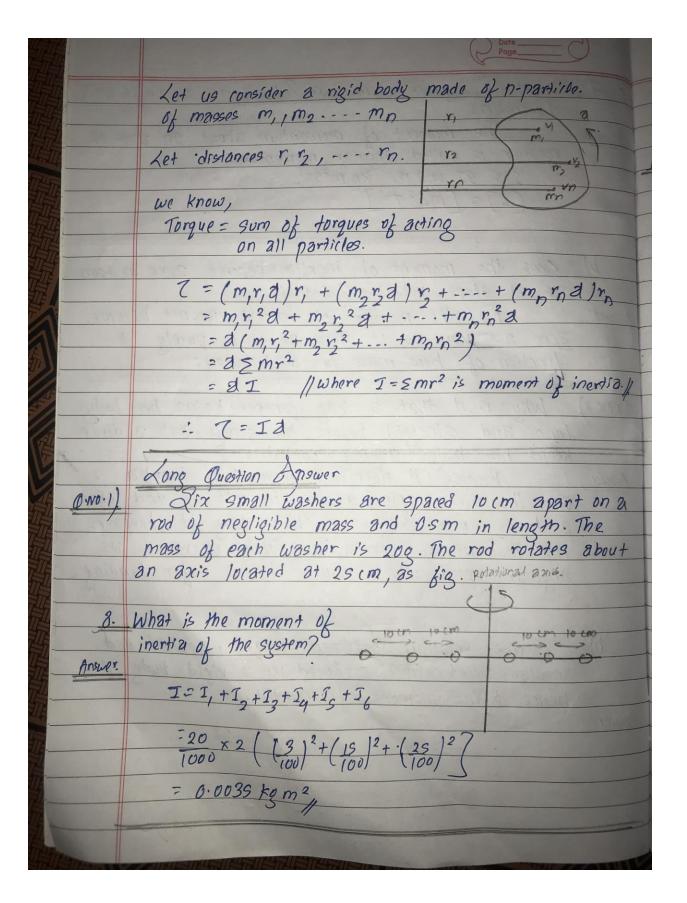
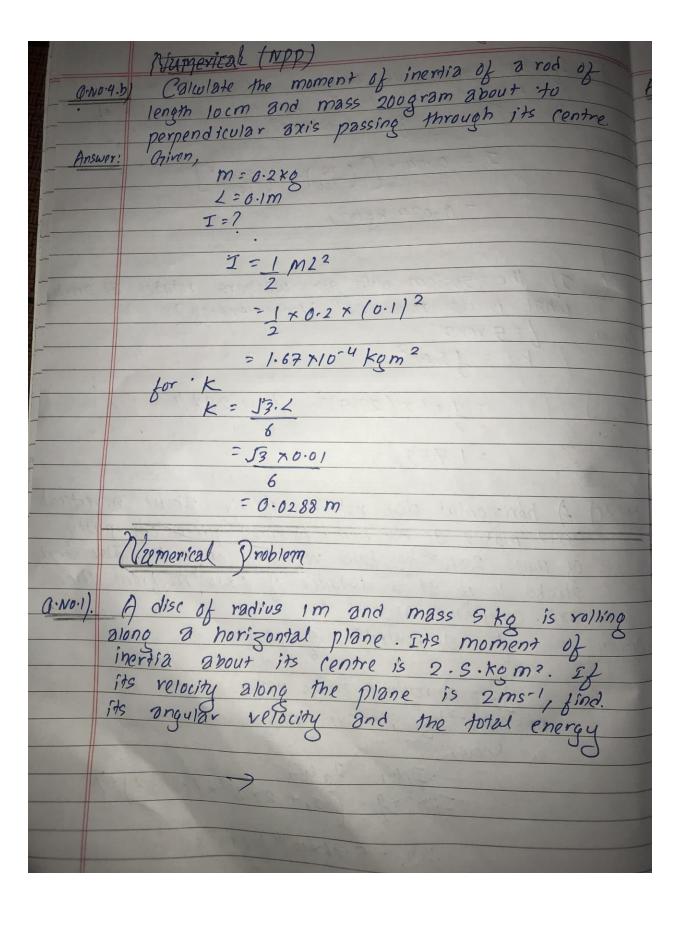


	Page
6.NO.3.P	If no internal torque acts on a hody, will its
	angular velocity remain constant ? Give reason.
Answer:	
	When internal turque is absent, angular velocity will not remain constant.
	(Visit it
A STORY	when, torque (T)=0
	dL=0
	dt
4	
	=> L = Constant / Where, 2 -> angular momentum
4	LW = constant
-	- Wal
onto	memerium gizie nam I kind miller nome
all my line	
()	The kinetic energy of a shalt rotating at a constant
	angular velocity of 22 rads - 19 7.805. Lind its
13/13	angular mumentum.
Answer?	Given,
	K.E. = 7-87
	$\omega = 22 \text{ rads}^{-1}$
	Angular momentum (1)= /
	we know,
	$k \cdot \epsilon = 1 I \omega^2$
	- 323 St. V. L. VIII (1 Sellio) (1)
	or, $k \in \{-1, \omega \}$ $(L = Z\omega)$
	:. L = 0.708 kg m ² s-1
	The test of the second

	Date
6.NO-7-a	What is anoular momentum 2 will all
	What is angular momentum? Write it's 31 units and.
Answer:	rotasian is moment of momentum about an axis of
cita	St's as unit is called anoular momentum.
	The moment of momentum about an axis of rotation is called angular momentum. It's 91 unit is, kg m25-1. [L] = [ML2 T-17]
	The state of the s
b)	Dana M.
entump	Open the moment of inertia become zero as soon as it stops rotating ? Explain.
Answer:	No, the moment of inertia doesn't become.
	Zero as soon as it stops as it is number a
A Property	Zero as soon as it stops as it is purely a function of how mass is distributed:
	The second secon
07	Why is it that a long jumper keeps his body
,,	keeps his hody clipbly simed up?
Answer:	long and straight before the sump, but a diven keeps his body slightly curled up? Because it decreases moment of inertia
18 60 10	and the diver spins a faster in mid air and when
1 20	a long jumper keeps his hody long, it increases
the train	it's moment of inertia and thus decrease its angular speed which results in a safer landing.
	angular speed which results in a safer landing.
· th)	Acrive relation between through applied and
	Derive relation between -torque applied and angular acceleration produced in a rigid body and hence define moment of inertia.
	hence dekine moment of inertia.
Answer:	jerie e degjirie jir i jeri
	> 100
	The state of the s
	The second secon
-	



		Coate Page C
	b	are removed, what is the mamaget of the axis
	Answer	four Wosners/
	4	$I = 0.04 \times \left[\frac{15}{100} \right]^2 + \left(\frac{25}{100} \right)^2 \right]$
		L (100) T (100)
		= 0.034 kg m ² /
	Ċ.	If the system with gix washers rotates at greups.
1		What is its rotational kinetic energy?
	Answer	\$ = 5 revs-1
	-	$k \cdot \epsilon = 15\omega^2$
!		- I will be a second of the se
		= 1 x1 x (2719)2 // W= 2216//
		-1.727
		=1.735
	Q-NO-2.	A horizontal disc rotating freely about a vertical.
	1	axis makes go rev/min. A small piece of putty
		of mass 2710-2 kg falls vertically on to the sisc and
1		sticks to if 8+ & distance of 6 x10°2 m from the.
_	8 00.8	aris. Calculated M-I of disc.
4	Answer:	$f_1 = 90 \text{ rev/min} = 9 \text{ rps}$
_		LOOPER Show its report is 9.2. XX at 1
-	4	1/2 = 80 rev/min = 8/6 rps.
-		M=2×10-2Kg, r=6×10-2 m
-	-	we know, $I, \omega_1 = I_2 \omega_2$
-		
1		· I, ×2×9 = (I, + 2×10-2× (6×10-2)2).
		: I, = 5.76×10-4 kgm²/
		1311
1		AND OWNERS OF THE PARTY OF THE



	Dote Page
Answer:	Given; $r = 1m, m = 9kg, \hat{I} = 2.9 kg m^{2}.$ $W = 7$ $V = \gamma \omega$ $0r, 2 = 1 \times \omega$ $\omega = 2radg^{-1}$ $Total k.C = 1 mv^{2} + 1 T\omega^{2}$ $= 1 \times (9) \times 2^{2} + 1 \times (2.5). 2^{2}.$
Q.0002).	find the moment of inertia of the system.
Answer	about AB. If 'I' be the total moment of inertia. $I = m1^2 + m1^2 + 1m\Omega^2$ $= 7ml^2$ $= 7ml^2$ $= 7ml^2$

	Page_
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	we know,
	$k \cdot \epsilon = \sum_{i=1}^{n} \sum_{i=1}^{n} w^{2}$
	L set show that Retroport
	or, $k \in \{-1, \omega \}$ ($\{-1, \omega \}$)
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	A SHELL STORY OF THE STORY OF T
4	
	A STATE OF THE STA