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	Laws &	Motion.			
	0		egita , st		ii.
for m	otion of an o	object.	1.0 G		
	V 1	, ,	M THE	· 41.57	V.
		required	E Carrel Los	- 77	
	Ç	orce			
	Jo 3	push or pull i	n convenien	+ direct	ion:
	-	-slowd in			
Inert		Many & Many	E W		
		either his r			
unfor	n motion. The	n this propertie	so of an opile	21 8	
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			7. 1		
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Even	object will i	maintein his	H1200 7698	on at	n
ν.		renever no ext	Ernal force	- Appu	20
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object	MIBELIAN III	inestical so	alied aver	it . fr	TO TO M
w Ker	ENEL NO EXTE	max Lova ab	paces over		
Masse	ordum P=N	IV = ko mi	= [MLT-1	19/93 6	1
Mon	entum P = M	W = kg ms	= [MLT-1	19193 F	16
	The state of the s	A TO MOR NOT STATE	= [MLT-1	20133 F	G.
=> Newbo	n's second law	a motion -	B		
=> Newby	of change of	of motion -	n respect t		
=> Newby	o's second law of change of	I motion - mannentum i	n respect t	b time	
=) Newton	o's second law Change of Fd	I motion - nonnentum i de de ext	n respect t	b time	
=) Newton	o's second law Change of For Book Book	I motion - nonventum i d P dt = kF	n respect t	b time	
=) Newton	o's second law Change of For Book Book	I motion - nonventum i d P dt = kF	n respect t	b time	
=) Newton	r's second law Change of Fd Mt	I motion - nonnentum i d P dt = kF -P -P t v-u) = (:	n respect t	b time	
=> Newton	r's second law Change of Fd Mt	I motion- noonsentum i d P dt = kF -P -P -P -P -P -P -P -P -P -	n respect t s=consland= x= Y=u t= y=u	I dugin	
=> Newton	r's second law Change of Fd Mt	of motion- namentum is alp oft = kF -Pi = F v-u) = (:: v-u) = (:: va = F wa = F when that force	n respect t s=consland= x= Y=u t= y=u	I dugin	

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400	F = ma	1		
	(îFx+JEy+RE) = m (îax+jay+	x az		
	J J	# -1	_	Y
	The S.T t O Love = Wewton			
	The S.I unit of force = Mewton			
	The C. G.S unit of force = Dyne			
	F= Ma	-		-
	11 = 1 kg x 1 m/sec		(
	1 Dyne = Ign x 1cm/sec2	and.	-	
	IN = 105 dyne.			
	The growthitional unit of force = 1 kg x 9.8 h	A Sec		
	= 1 hgl = -	o 633		
	= 9.8 %			
		1. 11.	1	
	13f = 980 cm/sec2		-	
	2			
4	Salar 2 mariantes conta notar, m	4		-
\Rightarrow	concept of Inertial- man.	3243	-	
	and to see and in the Emany was and in my Hind	6941 A.	1	
-	1 . Ke was him ma El medon an water	19/ W		
1	O)			
=>	Accelerated motion is due to a force - Force change the speed of moving object	1 200 / 1		
	Force change the speed of moving object			
	Q, Q			
h	Applied force can be measured by loves	Cast	,	
	Applied force can be measured by force			
	FXI		1	
	1 1 k 1 m 1 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m			
	Impulse - Average force applied for sme	4 1/0		
	interval called Impulse (1)	luc	
	I = Force X At = Ns			
	F=m (v-u)			
	water who pro . En the admit the wall	-	7	
	E = m = (v-u)	-		
	I = m(n-n)			
The state of the s		The second second		- market

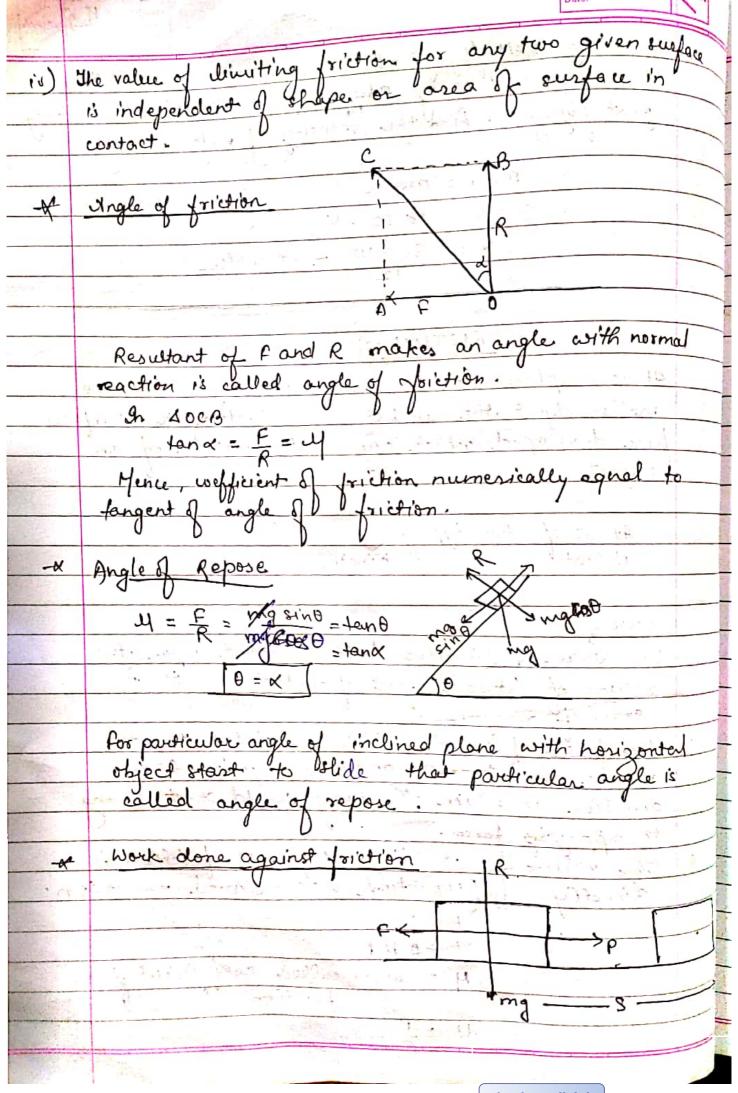
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6	Principle of Conservation of diseas momentum.
	In absence of external force total momentum of
	conservation of linear mamentum.
	$M_{\lambda} \xrightarrow{u_1} M_{\lambda} \xrightarrow{v_2} (A \times B) \cdot (M_1) \cdot (M_2) \cdot (M_2) \cdot (M_3) \cdot $
	Before collision Collision After collision.
MILI	+ M242 FAB = M, (V, -U,)
	= M1/1-m/2 FAB = m2 (v2-V1) -
	$f_{AB} + f_{BA} = 0$ $m_1(v_1 - u_1) = -m_2(v_2 - u_1)$
	dage 1 1 + 12 12 2 - 21 2/ + 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
	m, v, - m, u, = - m, v, + m, u,
	(milal milal + milal + milal
	so, momentum before collision is equal to momentum
_	ofen collision:
<u></u>	From 2nd law of motion Newton.
ī	Fixt = dP1 + dP2 + dP3
	to observe a external 1 mm.
	In absence of external force. 0 = d (P1+P1+P3+
***************************************	P1+P2+P3+ > 0 = constant

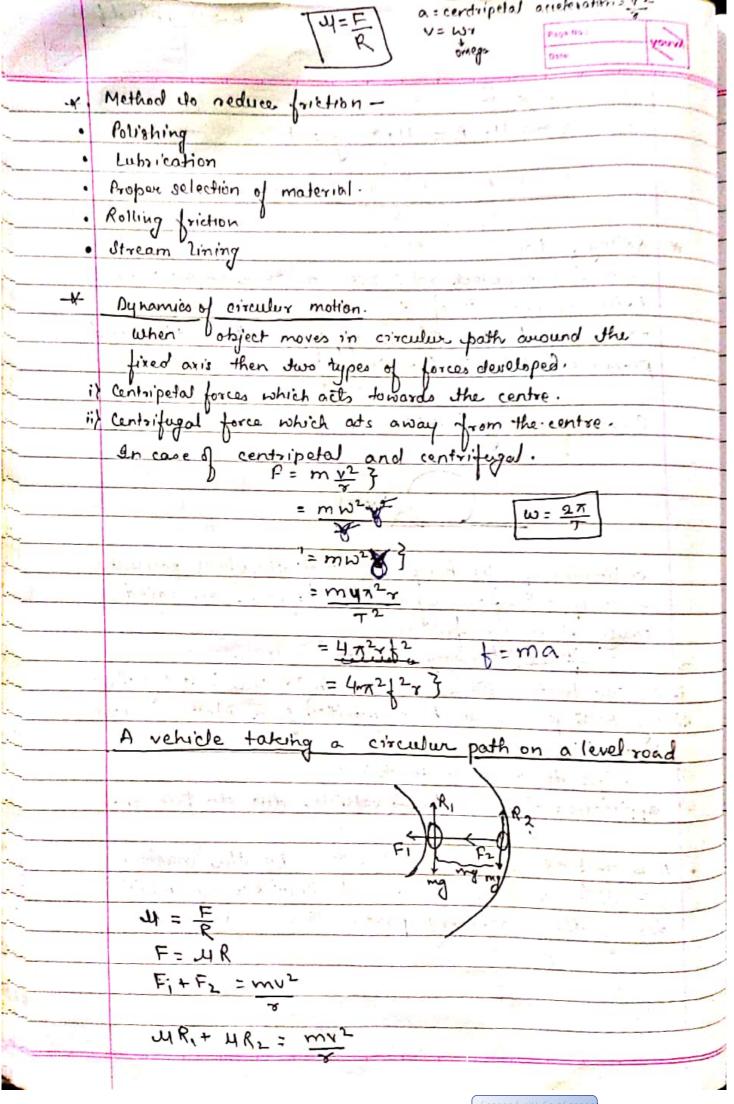
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	The second secon	Page No.:
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-	Application for conservation of w	and it have
	the training of the said	1 24 1
	get recoil I gives a kick in box	kind Dation
	O', I'd with a set I	THE CHAR.
	Becail ist	1000 19 60
	Recail velocity a come and	1 d. 115 / 1
	Recoil velocity of gun = y	advant b
	Velocity of Bullet = W.	ah M.L. Is
		The state of the s
	Momentum before fising = Momentum	after all
	Mx0+mx0=mv +cmv	Listano
	My my	
y-1-1-	V = - M	
	May May	
-¥	Concurrent force	1-4
		+2
	A	of which is
	of numbers of forces acting at	3 B
	fixed you'nt then they are \$2.	¢1
	called concurrent torce.	
E 1	y was in the fact of should their on	e arti d
	, F	
		<i>y</i>
	La sens trace - La Si ann a li la C	San and and an
	existe delade	1 msa =0
		12.11.
	00 rext - 0	m(1-4) =0
	the state of the s	() t
	P - D	m(V-U) = 0x+
		111(4 1) - 01(
		my-my= 0
	The state of the s	P
		Pt-1=0
		P = P.
		111 - 11

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	E		77.5	Page No.: Date:	Kouox
8	of monkey &	mas 40 k	a flying o	n a rope w	hich
	can strend	a maximu	m Jension	8 600 N.	iii
107	In which 8	the follows	he cases will	11 O the roj	be
	break.	The morkey	·	U	
		up with an		8 6 m/s2	
	b) Climbs de	own with an	acceleration	1 4 m/s	2_
	of Climbs u	p with a	speed of	s.m/s	
	of falls do	un the vive	be nearly fr	eely under g	navity.
	U		- 1-0	U U	
al	Mars = 40 kg	April 10 May 199	January Comment	for Suckening	
1	mata		10 - 4	+ 3 × 11	
	ν ρ =	m(g+a)]	object goes up)	150
					40 3
	٤٦	M (9-a) Jobj	ect goes down	n-	632
	7,			who Thank in	6326
	F =	m (g + a)			
	600N=	- / - / - / / / / / / / / / / / -			
		40 (9.8+6)	souther me	The many	
		40 × 15.8	المرب الماس فلي	i - Mirach	271.
		6.32	and there		No of
	# The ro	pe will brea	k because th	e force on the	ropeis
	less.			U	
		1			
<u>Q.</u>	two masses	6) 7kg and	12 kg are	connected	et the
-	two ends	ses over a acceleration of en the mass	ight unextan	sible string)
	that pa	sses) over a	1 frictionless	pulley.	
	find the	acceleration of	mass and t	he tension is	, the
	string wh	ien the mass	es are selea	sed.	
E . (:				(Y
	7-	$m_{19} = m_{10}$		-	
1	M29	-t = m, a		1	XT
100	q(m2-m)) = a(m,+	m_2	[74.]	1
	a =)	his his	12/2
	Sea 1	(m1+ m2)		7	w= mg

	Page No.: M n yourk
S	it one part of 18 kg Stepp stops. When it explodes start flying on. find the velocity of later
	it one part of 18 kg stept stops. While the meaning
	start flying on. Find the velocity of later.
	$m_1 v_1 = m_2 v_1$
	30 × 48 = 12 × V
	V = 30 x 48 = 120 m/sec
	12
L	FRICTION
	It is a phenomenon is which one object slides over
	another object then in between contact of two surfaces
	force developed which oppose the notion of an
	object.
2	the state of the s
	It is of two types.
	et is of two types. if Static iif Kinetic
	laws of Friction.
ij	The value of limiting friction depends upon the
	nature of two surface of contact and their
	state of soughness.
ii)	The Lorce of Isiction is tangencial to the two
	contact ordact opposite to the
	direction in which the body could start moving
	on applying force.
'id	I we derent us torce of faction is
	directly proportion of normal reaction.
	FXR
*	F=OHR
	H = const. called coefficient of
	4 - 1 crion
	4 = <u>F</u>





	Page No.: Vouvi
9	u(R,+R2) = mv2
	What is the second to the seco
2	Myg = yhv2
	$M = V^2$
	$M = \frac{\lambda}{\lambda}$ $M = \frac{\lambda}{\lambda}$
	Blanked Road. VR2
	ARI . e
	8 10 4 7 700
	R sine = my2
	1/ silve = myz
	mg was 0 mg was 6
	R SI'ND - MYZ mg
	Russo ryla
	$tanb = U^2$
	79
*	Motion in a virtical circle
	√-, B
-	-T2 \17
	too it with an interior to distribute the second testing
	buyo ditali (- 1/2) 1/2
	. Elly on the first de constant de la constant de l
	A V,
	At point A.
	$T_1 - mg = mv_1^L$
	The state of the s
-	At porint B
1	72 + mg = mY2
	12=0
	mg = mv
	u,2=~q
1	

A Ren	Page No.: Peter Youvi
	According to the principle of convox votion of energy. Total energy at point A = Hotal energy of point B.
	Total energy at point A = Hotal energy of point B.
	K.E at point A = (KE+ P.E) at point B.
	1 mv,2 = 1 mv2 + mg(2x)
	-120/2 = 1 v2 + 29 v . post months
	- 2 Ni = - 2 rg + 2 gr
	======================================
	V,2 = 592
	V1 = 159x
-	T1-M9=M S9x
	T,-mg=m Sg=
	Ti = Smg + mg = bmg
	0 0 0
-4	If a bucket containing water is retated along a wertical circle such that relocity at the lowest
	restrict circle such that relocity at the
	point in square root of sign (Jign) that is equal or greater so the world will in not aprit.
	or greater so the water will what split.
	W
	The state of the s