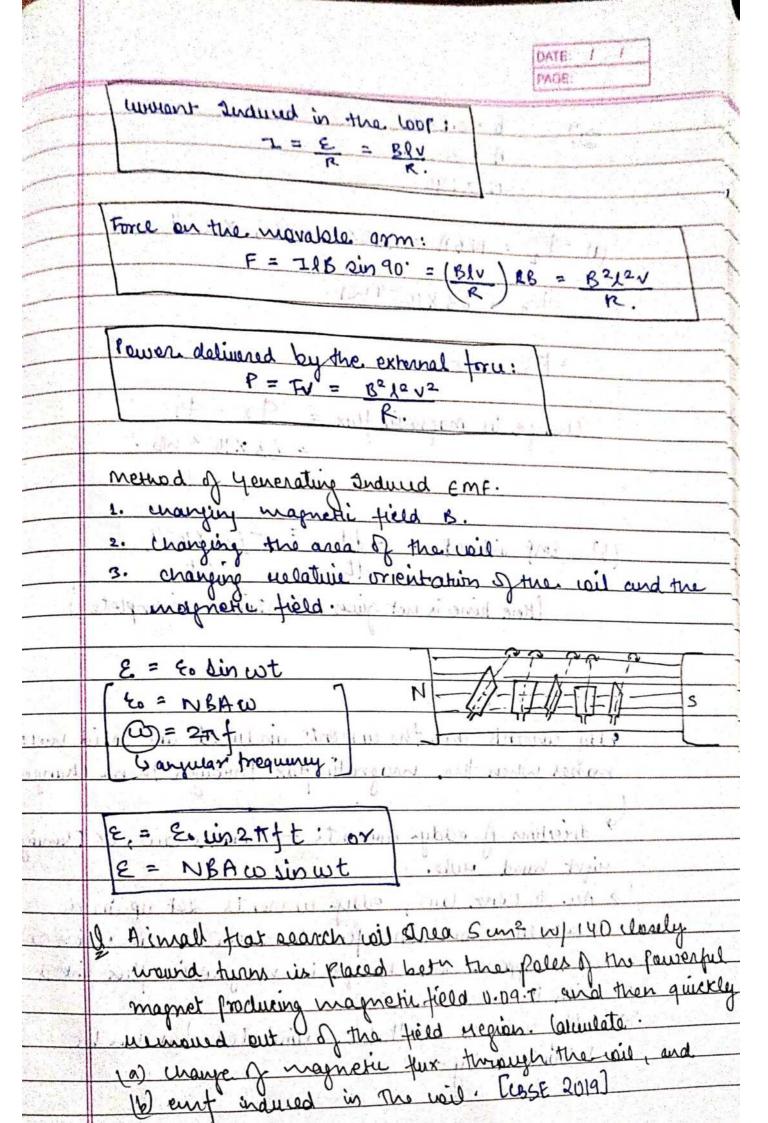
100	A STATE OF THE PARTY OF THE PAR
1000	Electrismagnetic Induction
	Land Market with the state of t
	majnetieflux - The no. of magnetic field line vianing a surface
and the	normally
المنا	denoted by to on &
	- B.A = 18A WSO
0101	a solving and other rembersion of a war for the
	when B is perpendicular to the surface i.e., $\theta = 0$; $\phi = NBA$ (max.)
	· when B is parallel to the surface i.e, 0 = 90:, \$= 0 (minimum value)
a per s	• In case of a coil, having Nturns, = NBA coso.
	towns a saw a few first first first first
	scalar quartity
	> dunensional formula → [ML2T-2A-7]
	4 SI unit - webox (Nb)
	4 (US wit - Maxwell.
	1 wb = 108 max well.
	Uectromagnetic Induction - It is the Phonomenon of generating emf (electromatine force) by changing the no- of magnetic field lines (i.e., magnetic flux). The ent generated → Induced emp is I the wicint is closed the warent which flows in it due to induced out → induced whent:
511	ent (electromatine force) by changing the no- of magnetic field
	lines (i.e., magnetic tux). The ent generated - Indued em
	4 11 the virgint is closed the wrient which flows in it due to
w ka	word and prof - induced woment; thouse it is
	deale itere in al line to see bruter to the out the
300	To lack laws O Glashmannekin anduchim Friday
	Founday's laws of Germmagnetic Inductions
	HUST (aw) - amount of majoreta Tus charges - Tus continues.
	· Toist law - amount of magnetic flux changes - emf is induce emf pensists as long as the change in magnetic flux continues.
0.7-4	late of change of magnetic flux. E = d + E = -d + dt
10.11	second taw you regressive if
	tate of change of magnety turn
in the second	$ \mathcal{E} = \frac{a}{dt}$, at
5.7	

DATE: / / PAGE:
Negative sign indicates that the direction of induced engine is ough that it opposes the charge in magnetic flux
Delantie of windyand
end in a circuit is such that it office
is magnetic fun respondence with the principle of conser-
in magnetic flux responsible for its production. Shis tow is in accordance with the principle of conservation of energy.
a site of instance currents in metal kings
1 and 2 lying in the same plane where woment I in the win is uncreasing steadily. [CBSE 2012]
(4101 - 100 - 100 1 (1000) 1000 - 1000 12 to
Dar With time of the
1 work i to work in the state of the state o
Turner () manufactor () of it IP - c into last interest to the contract of
The state of the s
Application of Lenz's laws.
(a) when north fale of the magnet is moued towards + roil, the werent indued in it will be in anticlackwise
coil, the werent indued in it will be in anticlackwise
dureihan ie., in North.
A Comment of the second of the
the sould also as it is a sent to the state of fore
(2) July on a women't convuing roil is moved towards a stational
(2) her a consent conveying roil is moved towards a stationery will, the direction of warrent induced

wil. The coverent viduced in the will be in clockwise ductation, ie, south direction: (3) When the wrent carrying ial is moved towards the stationary will the direction of the wrent induced is (4) when the whenk consising wil is moved away from the stationary wil the direction of the wrent induced (graninary) (5) when two coils A and B are arranged, Then on preming to whent A increases in clocking -> induced warent in uncreases and clock wise. However when key k is acleaned unrent in A decreases in Unchwise direction - induced current in B will be I induced airrent in B will be classwise direction.

	DATE: / / PAGE:
2-31	Mational EMF. Says M. M. Marian M. M. Marian M. M. Marian M.
No. 1	No. of the state o
	The EMF indued across the ends of the wonductor due to
	the EMF induced serven the ends of the motional emf.
	7 × × × ×
	,1
-	2 de la Marquesta de la
M ali	a print brigger in the trade and the increasing
i kan	8: - d+ [+= BA = Blu]
37	E' = d +
	Li Car
	$ \mathbf{S} \mathcal{E} = \mathbf{J}(\mathbf{S} \mathbf{u}) = \mathbf{S} \mathbf{d}\mathbf{u}$
	1
$n! \cdots$	dt dt
1.104)	Applyed Staff to Staff Olds
	E = - KLV.
-	a a lang (main is placed in a uniform
	Q A vectangular unductor LMNU is placed in a uniform
ž ,	magnetic field of 0.5 T. The field is directed perfendicular
N NA S	to the plane of the lanductor. when the arm my of
(2011	length of 20 cm is moved powards left with velocity
7/4	of comps. calculate the comp induced in the orm. Given
	the resistance of the corn to be 5-2 (anuming that other
	arms are of negligible resistance), find the value of the
	rurnent in the arm.
Y 6	
	@ E = 0.5 x a 2 x 10 = 1V
100	5 A REST TOTAL CON A GOL MONTH TOTAL PORT
N/J	VINTE 10 - The William
	I = & = 1 = 0.2 A grab de
	R 5



	DATE: / / PAGE:
	Solv 8 - 0.097
	7 A = Sanz
	N = 140
	(9) = NBA = 140x 0.09x5. X10-4
	(9) = NBA = 140X 0.09X 3
7 V	(9) 12 = NBN
1	
	Para = of O washer out not be waited asserted
	1 5159 - 17
	1 Ann Oil Hur = P2 - 41
-	= 63 × 10-2 Wb.
	The state of the s
	Le charing on the property of
	(b) Emp indiced = -dd = 1-63 × 10-4
and the	at at
2	[Here time is not given : Question is incomplète]
1 - 3 - 3 - 3 - 3	
di i	Eddy Currents
1	Eddy annents are the amornes unduced in solid mere
	Eddy Currents are the currents unduced in solid mere mande when the magnetic flux through them change
	uight hand rule.
0	> Acc. to Lenz law, eddy currents set up in a
WALA VIJ	metallic unductor flow in such a direction so
	as to oppose the change in magnetic flux linked
to the	with it was the development demands
11 (4)	
d la	Eddy convents can't be eliminated but can be himinated by-
	1919 JULY Dinney From bound of the way

	DATE: PAGE:
	- laminating the wre
	- by taking the metallic um in h
	- by taking the metallic were in the form of this laminated
	Appliations of 4day woments -
3 112	Tornaco.
9	2. Clechomagnetic Damping
	3. Glechi Buskes
	4. Speedometers
100	5. Induction notor
362	6. Alectromagnetic obietding
7.50	the state of the s
	Self Induction - The prenomenon of production of
	unduced einst in a coil when a changing current passes
	through it is called seef induction.
	Induced Current
	mm.
	Ta la
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
115 11	S. X. J. J. J. X. T. A. Mally X.
	Switch Battery apening
	switch
The state	Coefficient of self-inductance
	Coffinia of suf
- 12 J	DN 7 - 17
Take	VITA LIFE CE
A	0111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
7.92	$\mathcal{E} = -d\mathbf{P} = -L a \mathbf{I}$
Talks.	at a laid and is called
45	where, L is the constant for a given teil and is called
	where, L is the constant for a guint to self Inductance.
	→ Unit → Henry (H)
-	H

		PAGE
	Jey Inductance for long solunoid	
k termen!	$L = \mu_0 n^2 lA$	Diato
	M = Notano of Turns and the last	adicional Control
	:. L = 40 N 2 A	1000
	A sorta mile	11B 11
	& A woodal solenoid with air core ha	Man average
	madius of 15 cm, area of vion section 12	of the
	Howe the field to be uniform across to	ne own section
FOUNTA -11	mo toroid. november him a min forms	100
tiev	radius = 15 cm = 0.15 m	
	$A = 1200 - 12 \times 10^{-4} \text{ m}^2$ $M = 1200$	
	$L = 10N^{2}A = 4\pi \times 10^{-7} \times (12$ $2\pi \times 0.$	00) 2 x 12 x 10 14
7 °	27 XO.	15
	= Q.3 x 10-3 H	1 mortion
	J. A O.S m long solonoid of 10 Tuton	s-1 cin Las area
	of wan section lune could to the vol	mye induced and
	1A to QA in Oils.	s daya j
	Like the military of the transport of a	
	A = 1×10 m	1311.42 113
#	- A Menny(H)	Tird &

	PAGE:
-	change in current $dI = (2-1) = 1A$, $dt = 0.15$ The induced voltage:
-	VI = LdI dt
	dt
	$= \frac{40 \times 10^{-3} \times (1000)^2 \times 40}{41}$
_	$= 40 \times 10^{-3} \times (1000)^{2} \times 10$
	1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	= 47XS X10-5 = 201 X10-5
_	= 6.28 my interest on the transfer out of
	Factors on which sof Industance depond-
	SLKA introduction and the second
	Permeakility of the wre material
	Murial Inductance
	4 The phenomenon of production of indued emt is one will
J	du to a change is the current in the neighbouring
1	the call effective in constitute to be a supposed by the second
	roefficent of minal Inductorie-
Control of the contro	$+ \times L$, $\Phi = \widehat{M} L$.
100000	$\varepsilon = -d + = -m \cdot dI$ dt
	Weir D M -> Henry (H)