	Jan 3hi Hong 03 SGH Electromynetic Induction Futureal
Su	Date: 5/4/04
U	$f = -\frac{d(Nb)}{db}$
	- 2.50 × 10 - 3 - 5.00 × 10 - 2.30 × 10 -
	= 0-100V look at magnitude
2)	E = Blv
	$=(5\times10^{-5})(10)(250)$
	= 0.125V
	or on A
3 <sub>1</sub> )	$\beta = \beta A \cos \theta$
1)	$= (0.250)(0.0800 \times 0.0800) \cos 0^{\circ}$
	$= 1-20 \times 10^{-3} Wb (3s-t)$
	workingery withink is through a resident
3b)	$\beta = BA\cos\theta$
	= (0-250) (0-0800× (1-0600) cos 90°
	=0.00Vb
9	or it is a steel struct to continu the magnetic serve
39	on in P=BACGOD and in local will and in
	= (0-250) (0-0800 x0-0600) cg = 30°
	= 104 × 103 Wb (3st)
	colordred magnet.
4	A = A A BACOS N=A E-BACCA
7	$E = \frac{d(NBA^{2}\cos\theta)}{dt} = \frac{NBA(d\cos wt)}{dt} = \frac{(30)(47)}{20}$
	= 475 × 0 -01 × 2×10 - NBA W-sinut)
	= 950 × 10 2 / (35 t) NBAWSINUT
	When 8=90°, sin 90°=1, Enax = NBAW = 0.597y (35.4)
5%	(i) & (iii): the shows some some some of the solution in
0.40	insuration material and and not suffect say
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16)	None stationers to do to the the see	
i )	Clockense	li E <sup>ge</sup>
(C)	abana	
(d)	Nane	
1 1		
(e)	Anticlockwise	
(ai)	The margaretial of the sodies of the section	
alf	The magnitude of the induced electromotive force E in a circuit is directly proportional	
	to the rate of change of flux-tentage on to	
	to the rate of charge of flux-tentage or to the rate of cutting of magnetic flux	
3 ( )		
30(11)	The steel stripe is cutting the magnetic flux	
	of the cylindrical magnet as it were hence	
	an electrometice force is generated in the	
	cylindrical magnet.	
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Zby	The electrical signal is too small to be	
,	converted to noticable sound energy as the	
	The electrical signal is too small to be converted to noticable sound energy as the induced ent is small-magnet is weak.	1 11
100	Nylon does not conduct electricity and is not a	2
2011)	magnetic material and will not affect the	
	magnetic material and will not affect the and magnetic flux of the cylindrical magnet. cannot be	re P
	magnetised	
2.5		

Gail)-The guitar string is magnetised by induction in the presence of the cylindrical magnet.

When the guitar string vibrates, the coil experiences a continuous change in magnetic flux due to the non-uniform field provided by the guitar string.

- By Faraday's law, an electromotive force is induced in the coil to appose the change in magnetic flux, hence generating an electrical signal between its terminals. Subject:

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Siii) J	Aduces a	rpposing emf	e flux from seed electrom	ease of c	urrent dec	reaseo.	
) (V) D	oft-cros	1 Core com	centrates magn	itic flux	and their a	hud U	
9	taver ro	ive of change	ie of fut res	wo una	Oppoung en	1.	
1	he of a	range of M	ux overeases	y wood	ore is used,		
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U	WYENT	increases, hi	ince length of	f delay	opposing emporing emp	of .	
(d) 2	- Asille	increases, hi ate continu	nce leigh of	t delay	is shorter	of	
(d) 2	- Oscille Cut th	increases, hi ate continu e magnetic	ence length of	t delay	is shorter solervid	of	
(di) 2 -	- Oscille Cut the By Fai	increases, hi ate continu e magnetic raday's lau	nce leigh of maly up & a flux set u, an electro	f delay	is shorter solervid rce is indu	ced	
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(di) 2 - -	- Oscille Cut th By Far Finduce	ate continue e magnetic raday's lau e eddy car	ously up & a flux set up v, an electron	oun by the notice for white	solenoid rce io indu	ced	
(d) 2 - -	- Oscille Cut th By Far Finduce	ate continue e magnetic raday's lau e eddy car	ously up & a flux set up v, an electron	oun by the notice for white	solenoid rce io indu	ced	
(di) 2 - -	- Oscille Cut th By Far Finduce	ate continue e magnetic raday's lau e eddy car	ously up & a flux set up on electron of servation of ping	oun by the notice for white	solenoid rce io indu	ced	