An .	-VIETNAM NATIONAL UNIVERSITY - HCMC NATION - CLASS Student ID:
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NIVERSITY (IU)	VIETNAM NAIS
HE INTERNATIONAL FINAL AAMI	NATION - CLU
Student Name: Dair August 20	Studen
Quanton: 50 min	nines
SUBLICCT: PHYSICS 3	Lecturer
or of Department of Physics:	Signature
Viature.	167
- Sorger	Holi Nghia
En Vision	Full name: Duong Holi righta nation. Use of cell phones, laptops, dictionaries is nation. Use of cell phones, laptops, dictionaries is
INSTRUCTIONS: This is a closed book examin	
Not allowed.	on 2 horizontal parallel factor
1) In the second trains of mass m = 25 mg can s	lide with negligible friction field of magnitude state Find the
Separated by distance d = 4 cm. The track lies in	lide with negligible friction of 2 horizontal parallel rails a vertical uniform magnetic field of magnitude 50 mT. A a vertical uniform magnetic field of magnitude 50 mT. A
**Not allowed.  1) In Fig. 1, a metal wire of mass m = 25 mg can slide with negligible friction on 2 horizontal parameters for the first parameter of the first parameters field of magnitude 50 mT. A separated by distance d = 4 cm. The trisk lies in a vertical uniform magnetic field of magnitude 50 mT. A source is connected to the rails, producing a constant current i = 10 mA in the wire and rails. Find the suggestion of the force acting on the wire. (20 ptr)  2) The magnitude of the electric field between the two circular parallel plates is E (100exp(-2t) V/m (Fig. 2).  The plate area is A = 0.04 m², Determine	
thagnitude and the direction of the force acting or	a the wire. (30 pt)
<ol> <li>The magnitude of the electric field between the re</li> </ol>	NO circular paraties posses
The plate area is A = 0.04 m <sup>2</sup> . Determine  a) The magnitude and the direction of the diff <sup>24</sup> b) The magnitude and the direction of the adder-	earment current between the plates. (10 pts)
The magnitude and the direction of the difference	and magnetic field between the plates. (10 persons)
b) The magnitude and the direction of the indu-	0000 -0
Tri.	
m/+ 7	Ser 3 cf
I B B	0000
The Files	0000 Fig. 4
Fig. 1	Fig. 3
n In Fig.3, the tal	Fig. 3  netic field B with velocity v. If the triangle has resistance rent i in the triangle. Let $AB = a$ , $BC = b$ . (20 $pts$ )  100 V, $R = 100 \Omega$ , $L = 0.1 H$ , $C = 10 \mu F$ . Find the voltage
R, find the magnitude and the first cur	netic field B with velocity v. If the rent i in the triangle. Let $AB = a$ , $BC = b$ . (20 $P^{-2}$ )  for $V$ , $R = 100 \Omega$ , $L = 0.1 H$ , $C = 10 \mu F$ . Find the voltage $C_{L+} = C_{L+} = C_{L+$
Given the circuit and the direction of	$\rho_{00}$ V, R = 100 $\Omega$ , L = 0.1 H, C = $\frac{10  \mu F}{\Omega}$
v and the currents is it is (20 as)	LE WIENCORZCE 1 100 gind the
and the the tee (20 pts)	CC in(ot-kx)āy. Pille
The electric field component of an electromagne	the wave in vacuum is $\tilde{E} = E_0 \sin(\omega t - kx)\tilde{a}_y$ . Find the
magnetic field 5 (20 pt.	s).
magnetic field B and the Po ynting vector (20 pt.	Dom: Em
END OF QUESTION PAPER	
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August 2018 FB = i L x B => { Fe to the left Displacement woment: id = Example to do = - Ex. A. dt = 18.85×10-12 × 0.04 × (-200 = 8.85 × 10-12 × 0.04 × C-200)e-24 => 000 id oppose the dissection of E = -7.06 × 10-11 × e-21 (A) Be id (0 => id appose the direction of I (discharge) 15 To the left \$ 8ds = No Noi + Moid We only consider Bu the plate => No i= 0 , who -> \$805 = Moid => 87xn = MSADO-For our Algebra expression, we only core abt magnitude B2xx= 7.08x 10th x e-2+ x 110 = 8.9x 601 = 2+ => B = 8.9×10-13 e-2+ (n & O(n (R; R being the radius of the plate

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