	(IU) - VIETNAM NATIONAL UNIVERSITY - HCMC XAMINATION - CLASS
Student Name: Date: Jun	Student ID:
Para de la constante de la con	100 minutes
BUBJECT PHYSICS 3	
Char of Department of Physics	Lecturer
Signature	Signature:
Full name: Phan Báo Ngọc	Jampe
INSTRUCTIONS TO THE PROPERTY OF THE PROPERTY O	Full name: Phan Báo Ngọc
not allowed.	mination. Use of cell phones, laptops and dictionaries is
/ (20 pts) A straight wire of linear mass de	ensity 0.08 kg/m is located
erpendicular to a magnetic field of 0.7 T as a	hown in Figure 1. Find the
agnitude and the direction of the currer	ot needed to balance the
	(4L) Pigure 1
77. E	
(20 pts) Determine the magnitude and the	direction of the magnetic field at
center of the circular arcs, point O (Figur	re 2). The current in the loop is
	47×10-7T.m/A) 4,7.10-5
A, $r_1 = 2$ cm and $r_2 = 4$ cm. ($B = \frac{u_0 i \phi}{4 \pi R}$; $\mu_0 =$	4π×10°T.m/A) 4, t. 10
5.1	Figure 2
pts) A coil consists of 200 turns. Each to	urn encloses an area of 0.65 m ²
	allel to the axis of the coil to induce a current of 0.12 A. T
ince of the coil is 300 Ω. O, 28	
R	
pts) A battery is connected to a series R	L circuit at time $t = 0$. If $R = 10 \Omega$ and $L = 200 \text{ mH}$, at v
If the current be 47% less thanlits equili	ibrium value? (Rise of current $i = i_0(1 - e^{-i/\tau_L})$) $\bigcirc_i \bigcirc$
with the same and the order	
4000	The second secon
4000	The second secon
4000	The second secon
(s) In Figure 3, R = 20.0 Ω , C = 10 μ	F, and L = 50.0 mH. The
ts) In Figure 3, $R = 20.0 \Omega$, $C = 10 \mu$ r provides an emf with ms voltage	F, and L = 50.0 mH. The
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6. 3/ Fin

resi 4/ (2

time

5/ (20 genera 500 Hz (a) Find (b) Wha

Ngày Jane 2017 - Nguyễn Trong Nghĩa 1 miss Như Trang 00 1) The vi The gravitational force is per unit length is: Eg = 0 mg (m=1) ap => Fg = 1 g = 0.08 x 808 = 0.784 (N(m)) To tolean Balance out Fg) Fb must:

+ equal magnitude (1)

+ pointing upward => current is from left to right (1)=> 1 Fb = Fg (=) Fb = Fg (=) DiB = 0.784 2 The Be created by lower arc is pointing out of the page.
By 11 upper 11 into the page. B = B - Bu = Mex6. FT - Wox6x = 4.71 x 10-5 CT 4x 0.02 4x. 0.04 The direction of B is out of the page E= 100 iR = 0.12 × 300 = 36 (V) E = N deB = 36 - 200 x d(BA) (=) 36 - 200 x A x dB -> dB - 00028 (7/5)

Ngày 41 0.53 * io = io (1-e-+1 Ta) (1) $T_1 = \frac{L}{R} = 0.02 (s)$ (A) => e = 0,47 di lin và library giao động theo tg. inms = Enms = 6.788 (A) $Z = \sqrt{R^2 + (x_L - x_C)^2} \rightarrow X_L = \omega.L$ Yms pr - Vns R + Vns C = Dinms R + inns X = 40.84 (V) R2 Pavy I 2 R 5 Pp = 0.188 × 202 & L> RPp = 0.1882 ×20 = 12.42 W P = 0.7882 x 31.83 = 19.76W P = 97.54 W