

SOLUÇÕES DO TESTE 1 EO-MEC/LEGM 5/11/2019

1

		A	B	C
a)	[1.0]	<0	<0	<0
b)	[2.0]	59.0 cm	47.2 cm	29.5 cm
c)	[1.0]	180 pC	90 pC	360 pC
d)	[2.0]	5.9 μC	18.9 μC	0.74 μC
e)	[1.0]	1.73 J	0.108 J	3.46 J

2

		A	B	C
a)	[1.0]	extremo	extremo	extremo
b)	[2.0]	$(q/d + \lambda \ln 3)/(4\pi\epsilon_0)$	$(q/d + \lambda \ln 3)/(4\pi\epsilon_0)$	$(q/d + \lambda \ln 3)/(4\pi\epsilon_0)$
c)	[2.0]	$22.5 \mu\text{C m}^{-1}$	$12.5 \mu\text{C m}^{-1}$	$33.8 \mu\text{C m}^{-1}$

3

		A	B	C
a)	[2.0]	$(1/2\pi\epsilon)(\lambda/r)$	$(1/2\pi\epsilon)(\lambda/r)$	$(1/2\pi\epsilon)(\lambda/r)$
b)	[2.0]	$0.303 (\lambda/\epsilon)$	$0.292 (\lambda/\epsilon)$	$0.248 (\lambda/\epsilon)$
c)	[2.0]	4.94ϵ	10.3ϵ	20.2ϵ

4

		A	B	C
	[2.0]	3.0 mA	1.5 mA	2.0 mA