

CC2 ELECTROSTATIQUE CORRIGE

barème

QUESTION	1	A	B	C	D	E	F	G	H	1
REPONSE		c	h	c	h	b	b	a	a	
QUESTION	2	A	B	C	D	E	F	G	H	1
REPONSE		réponse e								
QUESTION	3	A	B	C	D	E	F	G	H	1
REPONSE		divE = 0								
QUESTION	4	A	B	C	D	E	F	G	H	2
REPONSE		$Q = 2\pi R^2 \sigma_0$								
QUESTION	5.1	A	B	C	D	E	F	G	H	1
REPONSE		$+ e_x$								
QUESTION	5.2	A	B	C	D	E	F	G	H	2
REPONSE		$3/4\pi R^2$								
QUESTION	5.3	A	B	C	D	E	F	G	H	1
REPONSE		3 V/m								
QUESTION	6	A	B	C	D	E	F	G	H	1
REPONSE		—	+	—	+	—	+	—	+	
REPONSE		$1/2\pi R$								
QUESTION	7.1.1	A	B	C	D	E	F	G	H	0,5
REPONSE		réponse c								
QUESTION	7.1.2	A	B	C	D	E	F	G	H	1
REPONSE		$4\pi r^2$								
QUESTION	7.1.3	A	B	C	D	E	F	G	H	2
REPONSE		$A*a^4/r^2$	$B*a^5/r^2$	$C*a^6/r^2$	$D*a^7/r^2$	$K*a^8/r^2$	$F*a^9/r^2$	$G*a^{10}/r^2$	$H*a^{11}/r^2$	
QUESTION	7.2.1	A	B	C	D	E	F	G	H	0,5
REPONSE		réponse c								
QUESTION	7.2.2	A	B	C	D	E	F	G	H	1
REPONSE		$4\pi r^2$								
QUESTION	7.2.3	A	B	C	D	E	F	G	H	2
REPONSE		$A*r^2/1$	$B*r^3/1$	$C*r^4/1$	$D*r^5/1$	$K*r^6/1$	$F*r^7/1$	$G*r^8/1$	$H*r^9/1$	
QUESTION	7.3	A	B	C	D	E	F	G	H	1
REPONSE		$A*a^4/r$	$B*a^5/r$	$C*a^6/r$	$D*a^7/r$	$E*a^8/r$	$F*a^9/r$	$G*a^{10}/r$	$H*a^{11}/r$	
QUESTION	7.4	A	B	C	D	E	F	G	H	1
REPONSE		$-A*r^3/3$	$-B*r^4/4$	$-C*r^5/5$	$-D*r^6/6$	$-K*r^7/7$	$-F*r^8/8$	$-G*r^9/9$	$-H*r^{10}/10$	
REPONSE		$4A*a^3/3$	$5B*a^4/4$	$6C*a^5/5$	$7D*a^6/6$	$8K*a^7/7$	$9F*a^8/8$	$10G*a^9/9$	$11H*a^{10}/10$	