

2010

-

10 - 8 :

:

3 :

:

6 :

1

E

-

C

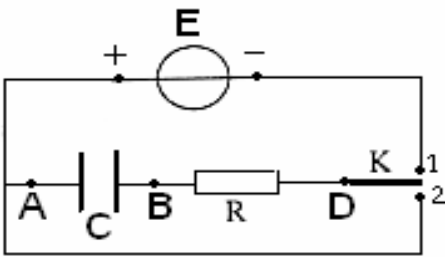
-

$R=10k\Omega$

-

K

-



الشكل 1

-1

-2

-1-2

$U_C=f(t)$

-2 -2

1

-

$U_C \quad U_R$

- →

- 3-2

$U_C=EE^{-t/\alpha}$

$\alpha \frac{dU_C}{dt} + U_C(t) = 0$

$\alpha$

-

$\ln U_C$

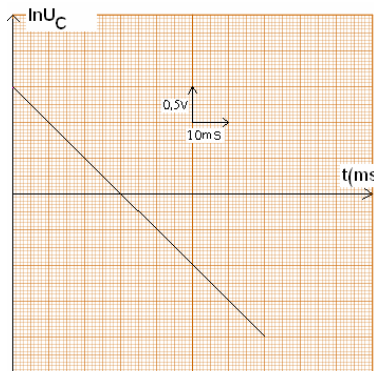
2

-

) E C

$\tau$

-



الشكل 2

5 :



:  ${}^A_Z\text{X}$  -

. MeV -

$t_{1/2}=12.3\text{ans}$   $\beta^-$   ${}^3_1\text{H}$  /2

${}^4_2\text{He}$   ${}^3_2\text{H}$   ${}^2_1\text{H}$   ${}^1_1\text{H}$  : -

${}^3_1\text{H}$   $\lambda$  -

${}^4_2\text{He}=4.0019\text{u}$   ${}^3_1\text{H}=3.01554\text{u}$   ${}^2_1\text{H}=2.01355\text{u}$   ${}^1_0\text{n}=1.00866\text{u}$  :

:

4.5 :

. PH=11,1  $C_1=0,10\text{mol/l}$  (S<sub>1</sub>)

. NH<sub>3</sub> / 1

. / 2

. V<sub>2</sub>=100ml (S<sub>2</sub>) / 3

. (S<sub>1</sub>) C<sub>2</sub>=2,5.10<sup>-2</sup>mol/l

. 10,8 (S<sub>2</sub>) PH / 4

. S<sub>2</sub> -

NH<sub>3</sub> -

(NH<sub>4</sub><sup>+</sup> / NH<sub>3</sub>)

4.5 :

1.0.10<sup>-2</sup>mol/L

V<sub>1</sub> C<sub>1</sub>

: pH

. V<sub>1</sub>.C<sub>1</sub> /1

/2

/3

