





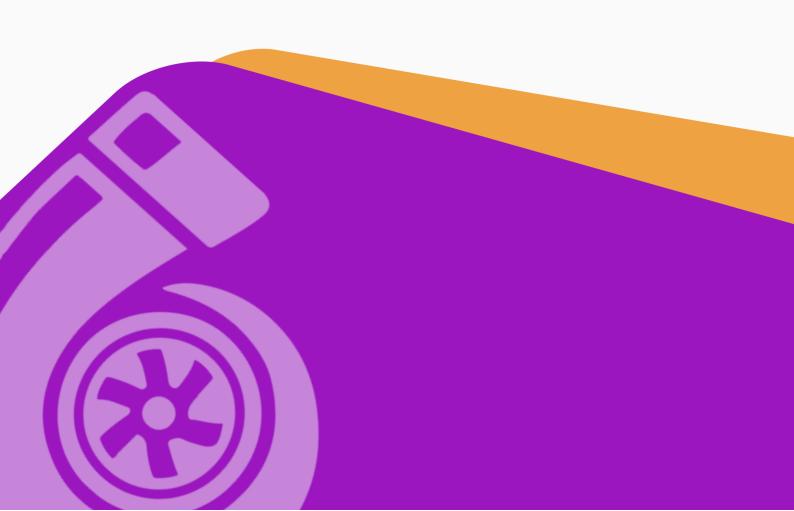
فيزياء عامة عملية 2

للطالبة: لجين ايمن





الميدة

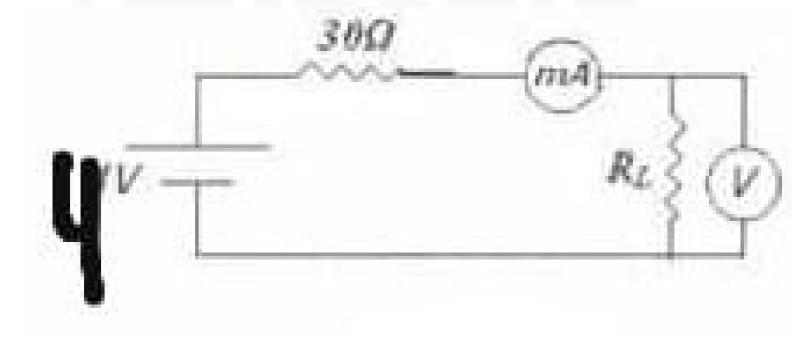




السؤال الاول

Shown the figure 1 answer question 1,2,3

- 1. if the circuit is operating at maximum power , then the voltage in volt s across RL is
- a) 2 b) 3 c) 4 d) 6
- 2.The maximum power dissapated in the load resistance in (mW) IS
 a)50 b) 300 c) 133 d) 30
- 3.lf R2 is varied from 10 Ohm to 150 Ohm in steps of 10 Ohm ,then the maximum load current in (mA) is
- a) 150 b) 0.10 c) 0.15 d)1000

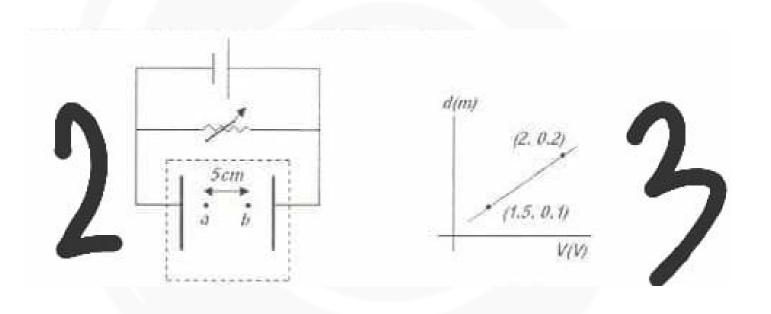




السؤال الثاني

Fig 2 Ishown the electrodes configration and fig3 shows the plotted Vversus d . Depending on these figures answer Q1,2

- 1.1)he magnitude of electricfield in (V\m) is
- a) 15 b) 35 c) 0.20 d) 0.07
- 2.the value of Vab (in Volts) is
- a) 1.00 b) 0.35 c) 1.75 d) 0.75

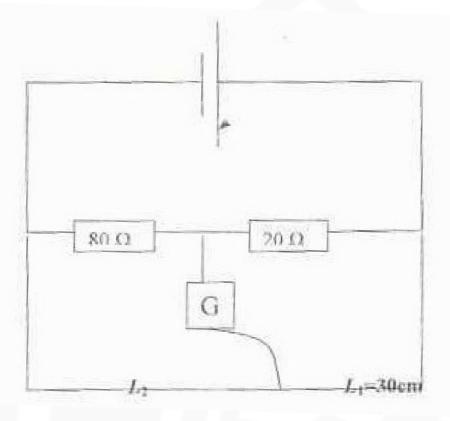




السؤال الثالث

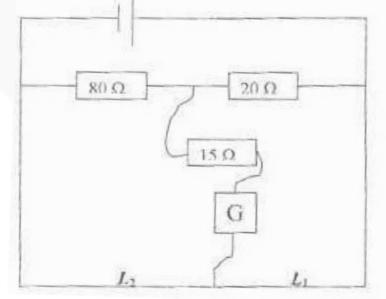
In whetstone bridge experiment if the circuit shown below is balanced for the values illustrated in the

graph



The value of L2 L2 for the following modified circuit in cm is

a) 70 b) 120 c) 150 d) none of the bove

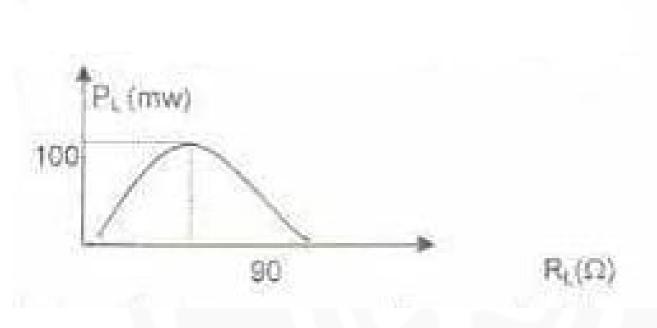




السؤال الرابع

In the power transfer experiment, the following curve was obtained, the value of the power supply voltage (in V) is

a) 3 b) 2.83 c) 5.83 d) 5.66 e) 6





السؤال الخامس

Table 1 has shown some measurments of specific charge experiment. Depending on this table , answer question 1 and 2

- 1)The value of spesific charge (in C\kg) is
- a) 1.8*10^3 b) 4.5*10^3 c) 7500 d) 3000
- 2) The value of unknown (x) in (mA) is
- a) 0.6 b) 600 c) 0.5 d) 500

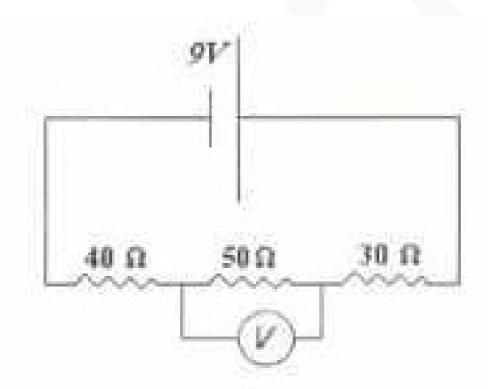
Current (A)	Time (min)	Deposited mass (g)
0.5	30	5
X	40	8



السؤال السادس

In the circuits shown in figure , the reading of the voltmeter (in Volts) is

a) 2.25 b) 3 c) 3.75 d) 6





السؤال السابع

In the magnetic field of a current experiment, if the current in the loop is increased, then the deffection angle will

a) decreaseb) increasedc) unchangedd) depends on the direction of the currente) no enough information



السؤال الثامن

Kirchhoff 2nd rule can be considered as an application of

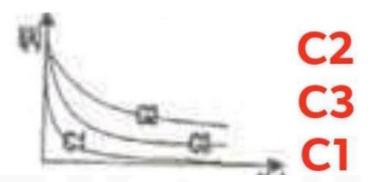
- a) conservation of mass
 - b) conservation of energy
- c) conservation of charge
 - d) conservation of kinetic energy
- e) conservation of mechanical energy



السؤال التاسع

The following figure represents the charging process for three different capacitors connected to same voltage and same resistance, using this figure can conclude that

C)
$$C1=C>C3$$

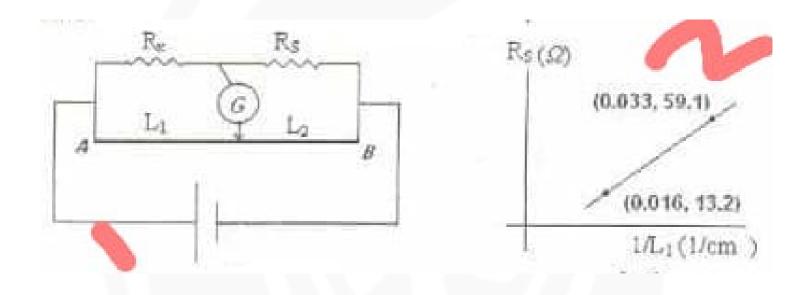




السؤال العاشر

For bakanced wheatstone bridge circuit shown in figure 1 if we plptted Rs versus 1\Lnas shown in figure 2, then the total length of the bridge (in cm) and the values of the unknown resistance Rx in (ohm), respectively are

a) 90,30 b) 90,20 c)100,20 d)100,30





السؤال الحادي عشر

The greatest accuracy achieved, in the whealstone bridge experiment, when

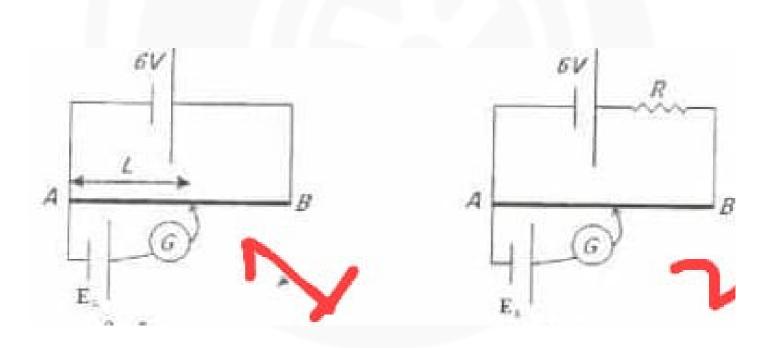
- a) L1>L2 B) L1=2L2
- C) L1<L2 D)L1=L2



السؤال الثاني عشر

In the circuit shown in figure 1AB is a uniform conducting wire of length Im and the resistance of the wire is 30 ohm If the galvanometer reads zero when L= 30cm, as shown in figure 1, then a variable resistance R is connected in series with the 6 battery, as shown in figure 2 The maximum value of R (in ohm) that can be used while the circuit still work as a potentiometer is :

a) 9 b) 70 c) 21 d) 13





السؤال الثالث عشر

In the specific charge of copper ions experiment two measurements A & B gave the following data using the same solution concentration of CuSO4

Experiment, using this results you can conclude:

a) mA=ma b)mA=2mB c) 2mA=mB d) mA=4mB

e) 4mA=mB

Experiment	I(A)	t(s)	Deposited mass
A	0.6	40	mA
В	0.3	40	ma



السؤال الرابع عشر

Figure one obtained the Ohms law experiment .

If R1<R2 wich of the following statements is

correct:

a) A : Rl & R2 in parallel , B : R2 . C : Rl , D : Rl & R2 in series

b) D: RT & R2 in parallel, CR2, B: Rl, A: Rl & R2 in series

c) A : Rl & R2 in parallel , C : R2 , B : Rl , D : Rl & R2 in series

d) D: Rl & R2 in parallel, B: R2, C: Rl.A: Rl & R2 in series

