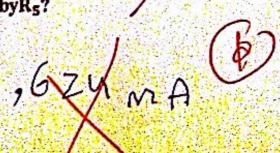


2) Measure I1, I2, and V5 using superposition method using the following table?

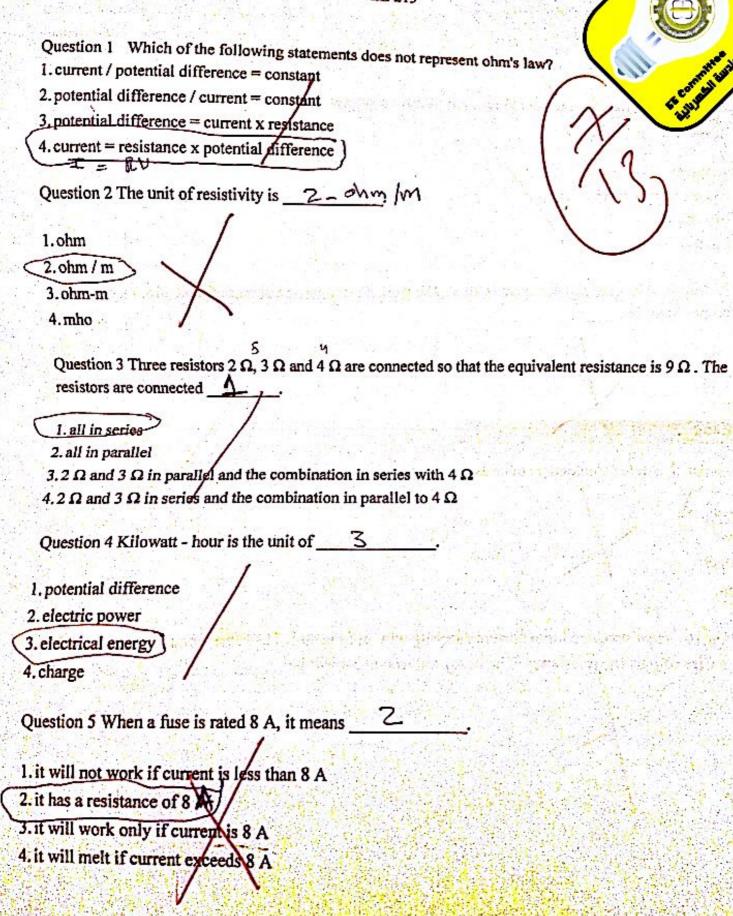
5.83 1.7 4.13	1'1 2010 - 5.23m 1'1 1.74	1'2 2.17mA 1''2	V'' ₅	$\left(\begin{array}{c} 1 \\ 1 \end{array} \right)$
4.13	27.12	3.27	V51	
	R1 1k)**: VII:	1 12 1 2 C
		. (1s 0.5 a	R3 12 1 R5 R5 2.2
V) 10V		R2 2.7 k	-	R4 - \ 0.680

- 3) Calculate the absorbed power at R5?
- 4) Measure the equivalent resistance seen by R5?



Theoretical Part EE 213

of Control to be like



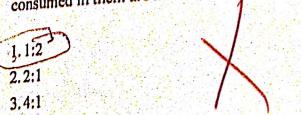
Question 6 The device used for measuring potent	lal difference is known as
1. potentiometer	
2. ammeter	
3. galvanometer	
(4. voltmeter)	
To volumeter	
Question 7 The work done in moving a unit position	ve charge across two points in an electric circuit is a
measure of	e change across two p
1. current	and the second s
2. potential difference	
3. resistance	
4. power	
$m{v}$	
Question 8 The potential at a point is 20 V. The v	work done to bring a charge of 0.5 C from infinity to
this point will be	
1 20 1	2. 11
1.20 J	errory, See Lymponius troch
2.10 J	
3,51	
(4.40 J	
Question 9. Joule / Coulomb is same as	
Question y Jone / Contons is same as	
1. watt	
2. volt	
3. ampere	
4. ohm	
Question 10 Heat produced in a current carrying v	vire in 5s is 60 J. The same current is passed through
another wire of half the resistance. The heat produc	ed in 5 s will be
1.60 J	
2.30 J	
3, 15 J	
4.120 J\	

4.1:1

Question 11. The current in a wire_

- 1. depends only on the potential difference applied
- 2. depends only on the resistance of the wire
- 3, depends on both resistance and potential difference
- 4. does not depend on resistance and potential difference

Question 12 Two electric bulbs have resistances in the ratio 1:2. If they are joined in series, the energy consumed in them are in the ratio



Question 13 When a current 'I' flows through a resistance 'R' for time 't' the electrical energy spent is given by

