Department of Electrical Engineering Assignment

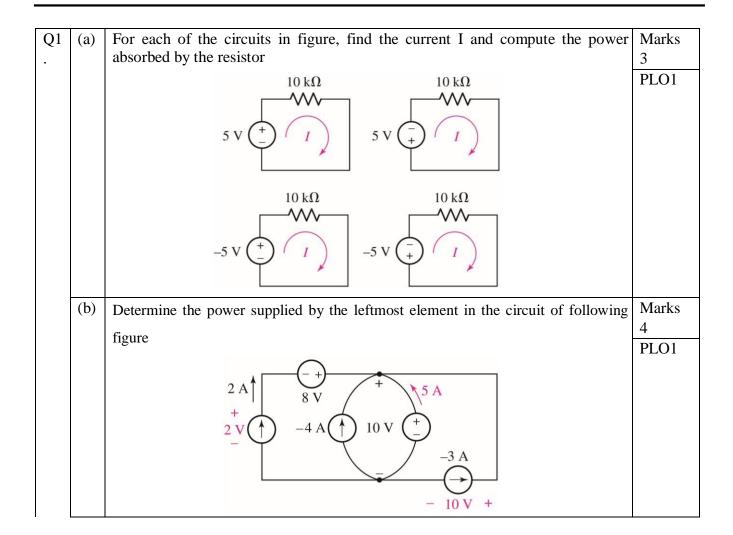
Date: 13/04/2020

Course Details

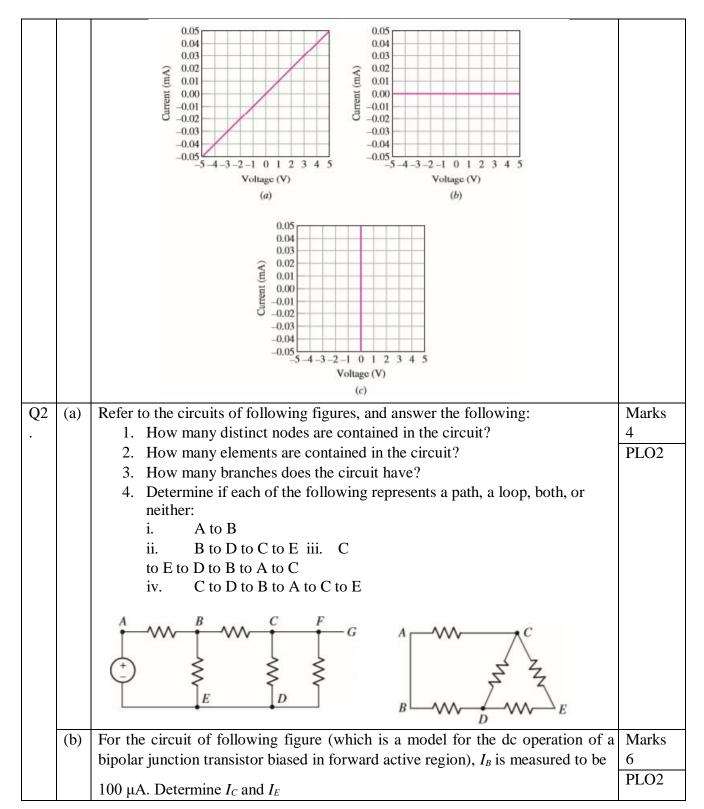
Course Title:Linear Circuit AnalysisModule:2Instructor:SIR SOHAIL IMRANTotal Marks:30

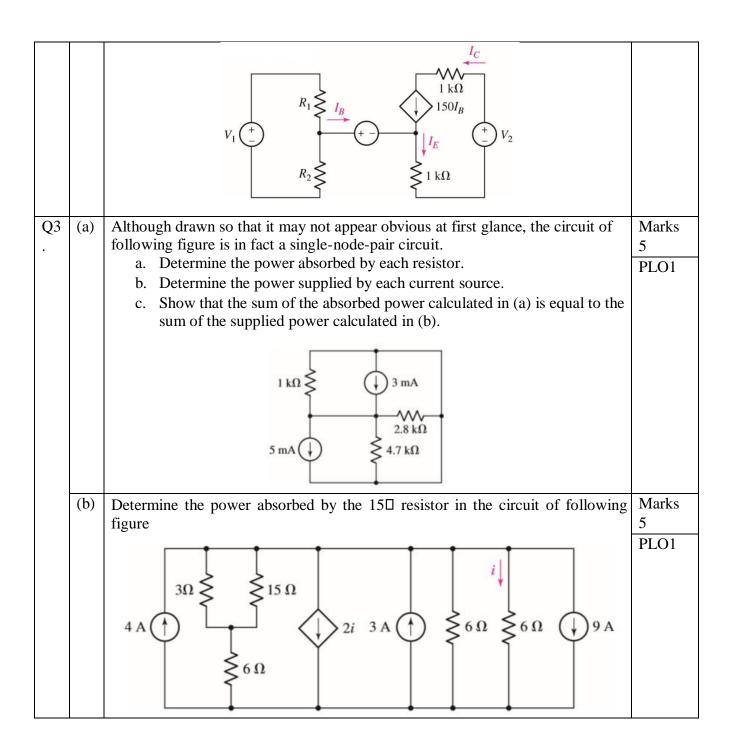
Student Details

Name: MUHAMMAD BILAL KHAN Student ID: 16434

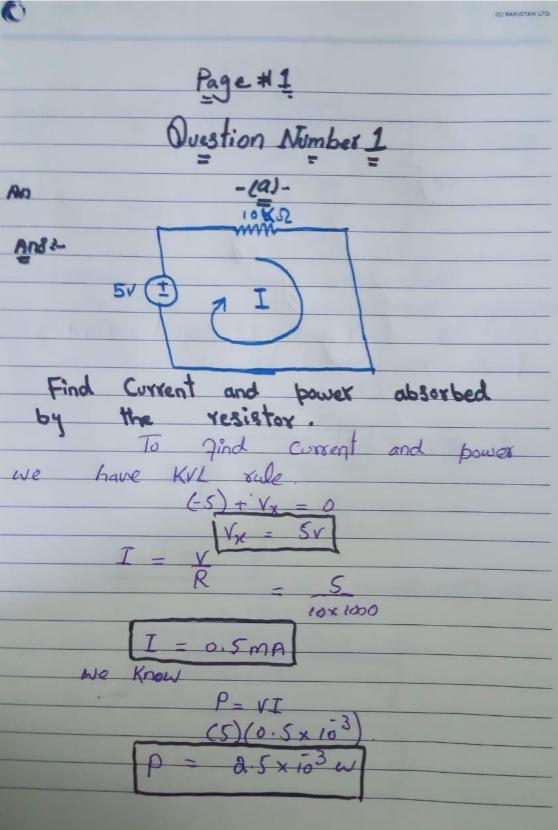


(c)	Following figure depicts the current-voltage characteristic of three different	Marks
	resistive elements. Determine the resistance of each, assuming the voltage and	3
	current are defined in accordance with the passive sign convention.	PLO1

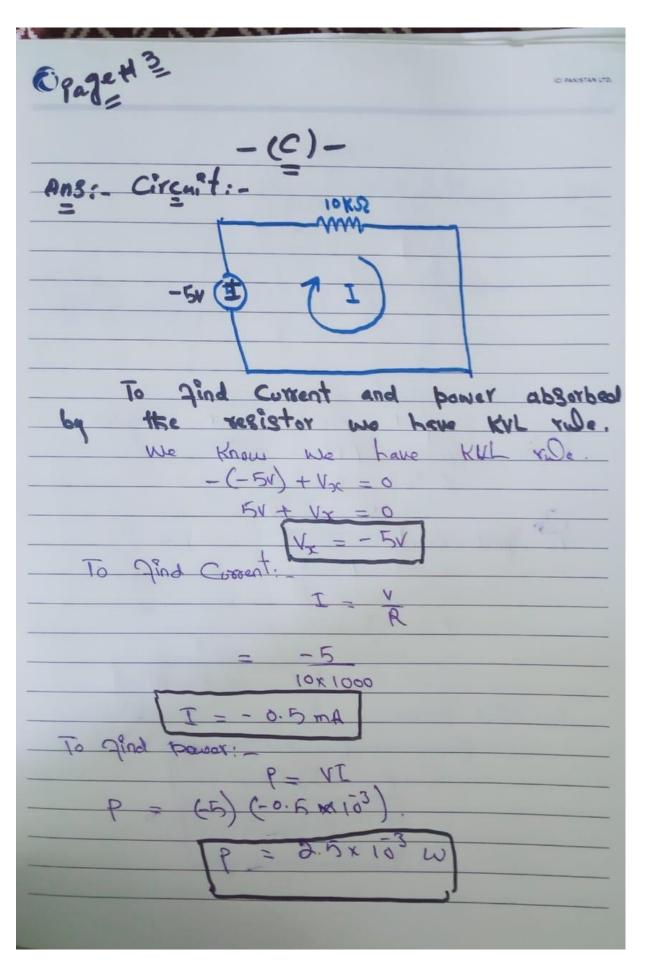


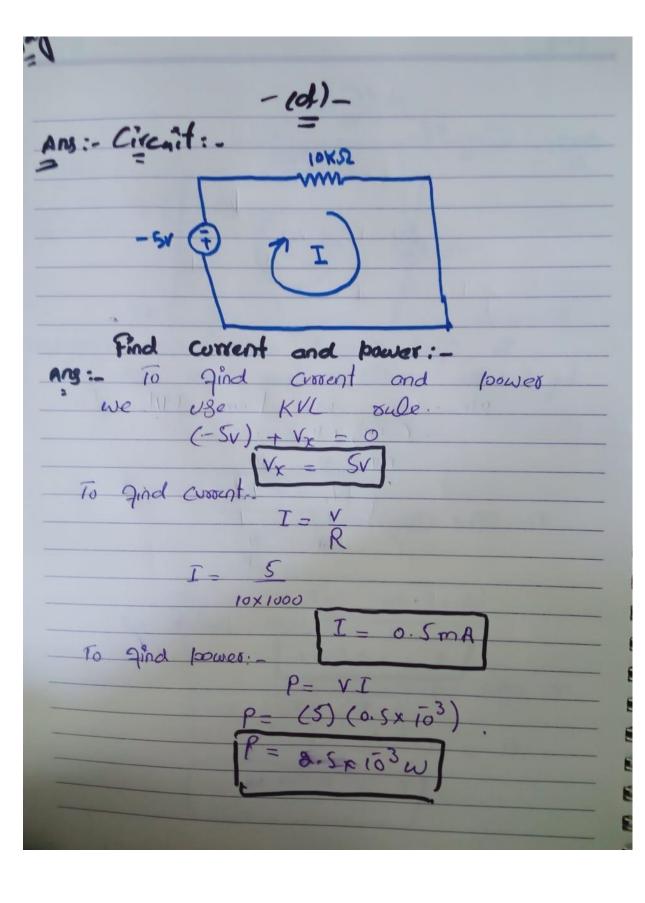


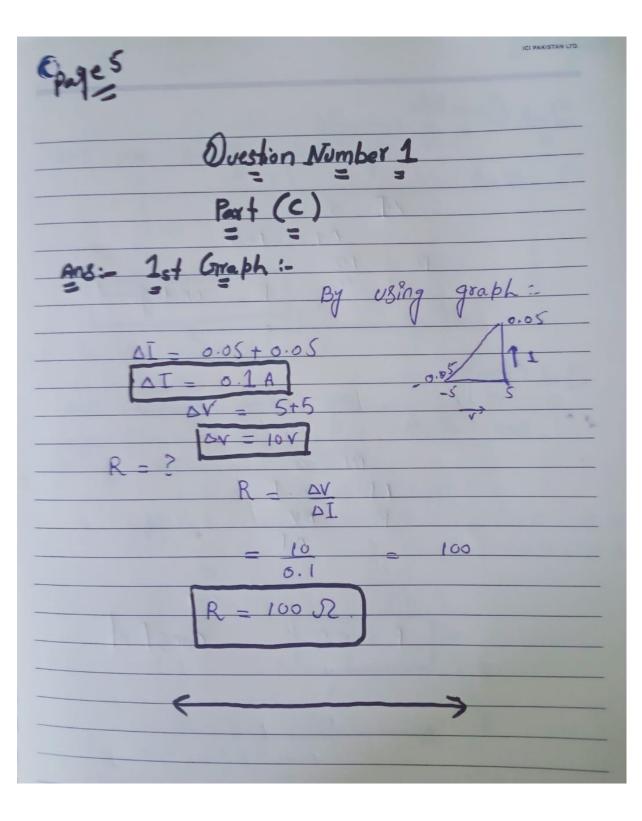
Name:	Muhammad Bilal Khan
ID :-	16434.
Subject :-	LCA (Linear circuit Ar
Exam :-	Mid
Teacher :-	SohaiO Imran.
(A) 1.	

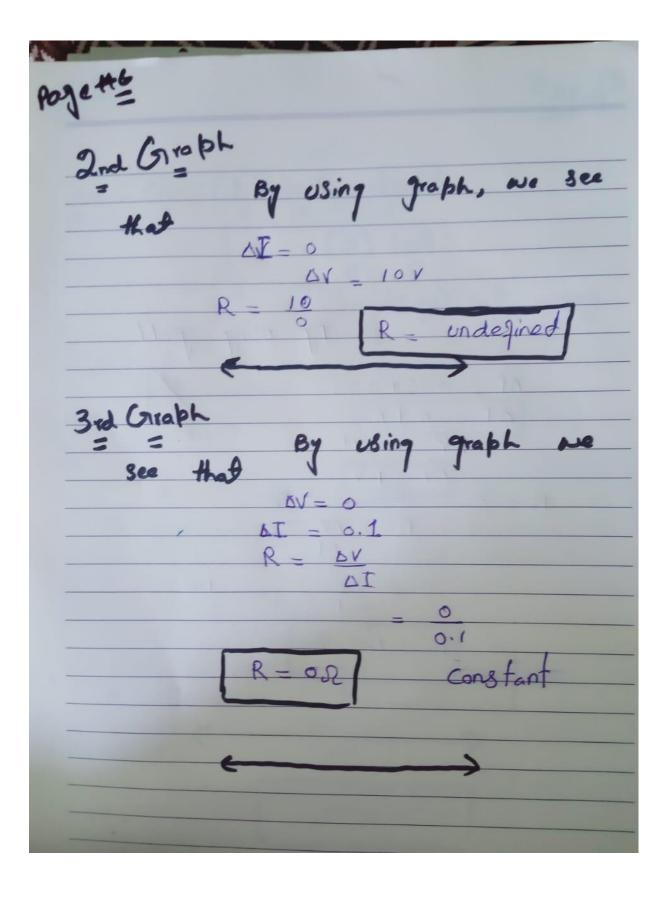


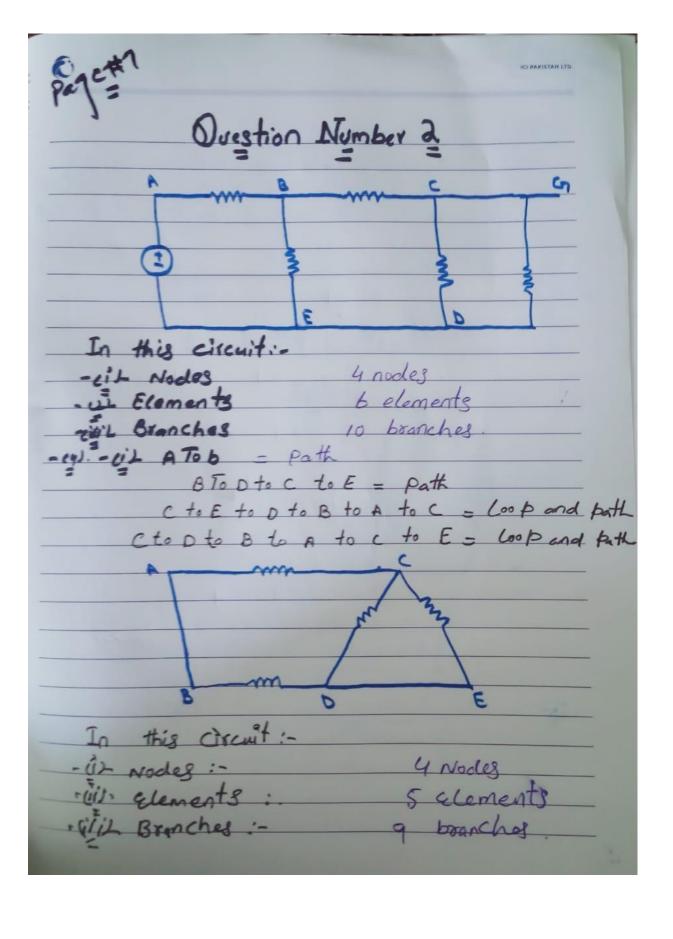
Page # 2 Ans:-Find Current and powe absorbed resistor. wo Use Kyl xwe. Dower (0x 1000 =-0.5mA To gind bower:

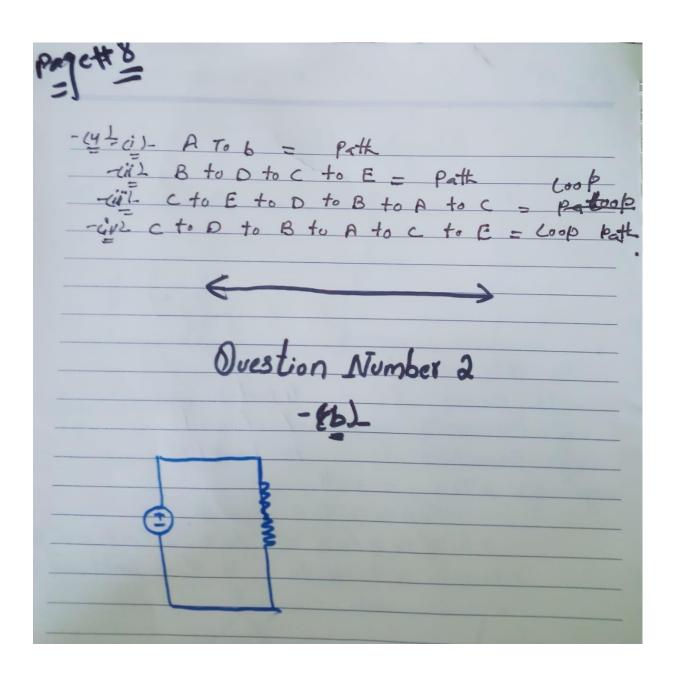


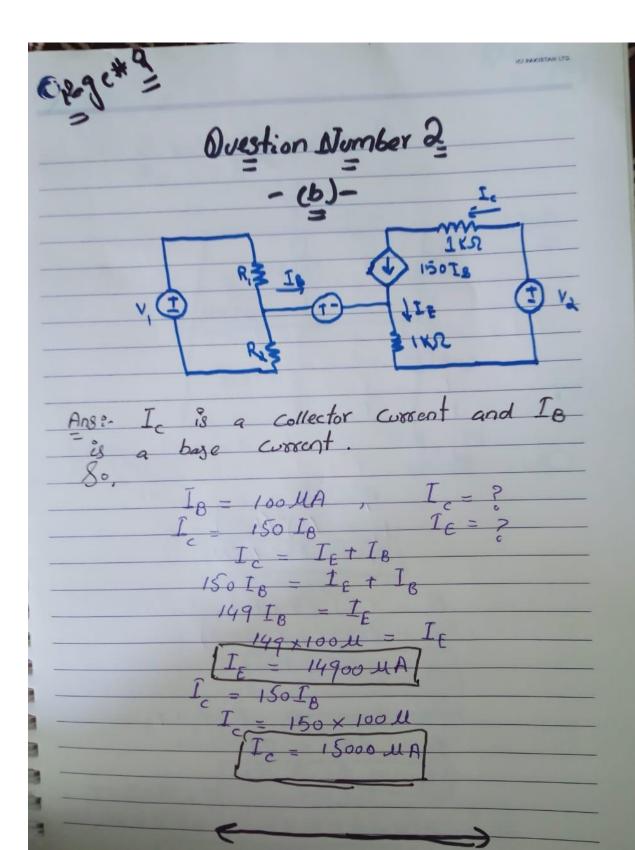


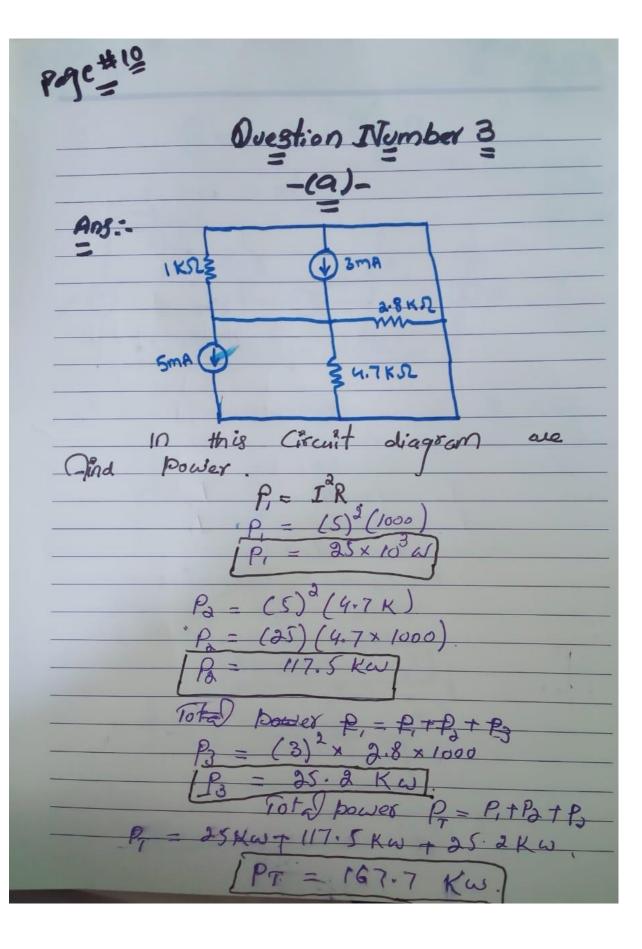


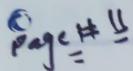










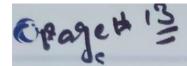


$$V_{2} = 4.7 \, \text{K} \times 5$$
 $V_{2} = 23.5 \, \text{KV}$

$$P_1 = V_1 I_1$$

$$P_1 = (SK)(S)$$

	Ovestion Number 3 -(b)-					
Ains:-	Find power = p = ? By using circuit diagram.					
Let R	and Ra are in parellel.					
4:	$Re = R_1 + R_2$					
	$\frac{L}{Re} = \frac{1}{3} + \frac{1}{15} = \frac{5+1}{15}$					
	185					
Let	Re = 8.					
Now?	Re = R, + Ra					
7.	$Re = \frac{5}{3} + \frac{6}{1}$					
	5+12 - 17/2					



[V = 34v]

for 150hm resistor

$$34 = I_1 \times 15$$

$$34/=I$$