	Name Section Subject	Roll	NoYe	ear
SI. No.	NAME-Rajasnee Laha ROLL - CSE214002 DEPARTMENT - Computers COURSE CODE - ECEUGIFSO2 COURSE TITLE - Basic Elect YEAR - 1st SEMESTER-	ronics Er	Submission Date And Engineering	4

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	like cRos signal gene-				
	rator.				
3.	Study of V-I Chanac- teristics of P-N				
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	junction diode				

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EXPERIMENT NO. 1

Registers - Registers are a type of computer memory used to quickly accept, stone, and transfer data and instructions that are being used immediately by the cpu.

A Processor pegsister may hold an instruction, a storage address, or any data (such as bit sequence or individual characters). Resisters are passive electronic comforents.

Stones electrical energy in an electric field. It is a Passive electronic Component with two terminals. most cofacitors Contain at least two electrical conductors of ten in the form of metallic Plates or Surfaces separated by a dielectric medium.

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· POTENTIOMETERS:

Potentiometers are variable resistors.

They normally have their value marked with the maximum value in ohms. Smaller trimpts may use a 3-digit code where the first 2 digits are significant, and the 3rd is the multiplier (basically the humber of o's after the first 2 digits). For example code loy= 10 followed by four o's = 100000 ohms=100K ohms. They may also have a letter code on them indicating the taper (which is how resistance changes in relation to how fare the potentiometer is turned). They are typically marked with an "VR" on a cincuit board.

· TRANS FORMERS:

A troopsformer is a static electrical device that troopsformer energy by inductive courling between its winding circuits. A varying cumon in the primary winding cheats a varying magnetic flux in the transformer's corre and thus a varying magnetic flux through the secondary winding. Transformers are normally petty easy to identify by sight,

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and many have their specs printed on them. They are typically marked with an "I" on a circuit board.

· Inductors:

Inductors, also called coils, can be a bit harden to figure out their values. If they are colors coded, the resources listed for resistors can help, otherwise a good meters that can measure inductance will be heeded. They are typically marked with an "I" on a circuit board. It is a bassive electronic component.

DIODES: In electronics, a diode is a twoterminal electronic component with asymmetric conductance, it has low (ideally zero) resistance to cumment flow in one direction and high cidedly infinite) resistance in the other. Semiconductors, such as Diodes. They are active electronic components.

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·TRANSISTORS:

A than siston is a semiconductor device used to amplify and switch electronic signals and electrical power. A valtage or current applied to one pairs of the than sistoms' terminals changes the cum-ent through anothers pair of terminals. Because the controlled (output) power can be higher than the controlling (input) Powers a transistor can amplify a signal. Today , some transistors I are palk aged individually, but may more are found embedded in integrolated circuits. Transistors (typically marked with an'g' on a circuit board). They are active electronic components.

· INTEGRATED CIRCUITS:

An integrated Circuit on monolithic integrated circuit is a set of electronic circuits on one small Plate of semiconductor meterial, normally silicon. Integrated circuits are used in virtually all electronic equipment today and have reevalutionized the world of electronics.

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Page No. 5 Expt. No. computers, mobile phones, and others digital home appliances are now inextricable Parts of the structure of mondenn societies, made Possible by the low cost of Producing integrated circuits. Integrated circuits. Integrated circuits on the an'u' on IC' on a gircuit board. OMORP Teacher's Signature

Expt. No.

· AI. Determining resistor valles

	Resistan	600	no C	ode.		Nominal	uppen	Lower	Actual
		4	Resistance value (N)			value	limit	Simit	pesistane measured
	Sample	1st		3rd	Tolepance	N	N+(N×TK)	M- (MXTH)	in Dmm
	type and wallage	Band	Band	Bond	4th Band				
							(105+	(105-	
r	Osmale	Brown	Black	Jellow	Gold	10 × 10/12	105x 5	10515	
l	resister.					=100KA	- CONT. 100	(102 = 5) xa	
l	1						= 105 KD	= 95 KA	
I	1 Big						(1+1+10)	(1-1-101)	1.08
1	hesiston	Brown	Black	Gneen	silven	101/05/2	=1-1ma	=0.9MQ	MA
1						= 1 W U			

· A2. Defenmining Calaciton values

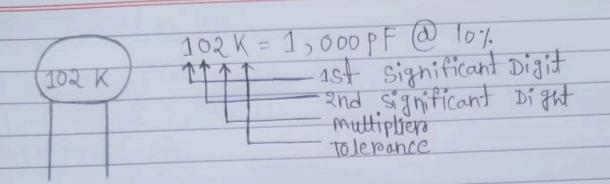
SI No.	cofaciton sample type	coded valuely	voltage natting (v)	Actual capalitance measured on DMM (4F)
1	(chromic colacitor	0.1	NIA	N/A
2	cofaciton	22	40	NIA

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code	Tolerance
C	±0.25PF
J	15%
K	+ 10%
M	± 20%
D	10.5PF
7	80% - 20%

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