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Rayat Shikshan Sanstha's

Name of the college : Sadguru Gadage Maharaj college, karad

Subject: Electronics

Expt. No. 1 | Name [redacted] | Class BCS-I | Batch: | Roll No.: [redacted]

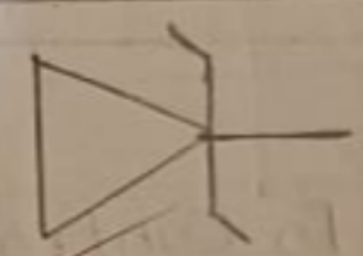
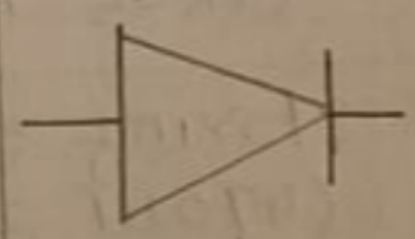
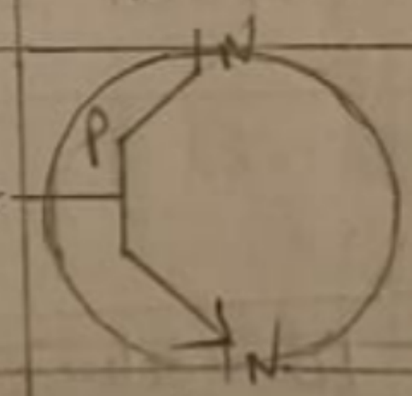
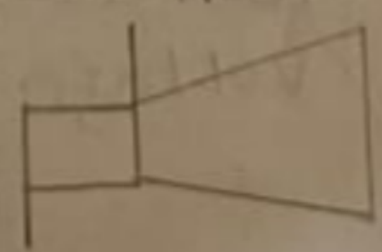
Date 7/8/24 | Title of Expt.: study of components

Aim - To study of components

Apparatus & components - Dual power supply + 5v supply, multimeter, resistor, capacitor etc.

observation:

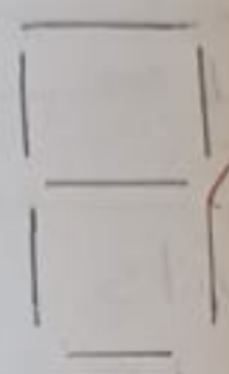
Active components -

Sr No	component	symbol	Specification
1]	Zener diode		It also allows reverse current
2]	ordinary diode		conduct electricity only one direction
3]	NPN transistor		used to amplify or swich electrical signal and power
4]	Speaker		can play all kind of sound
5]	IC		–

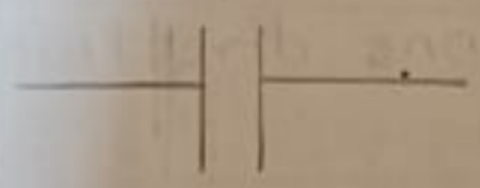
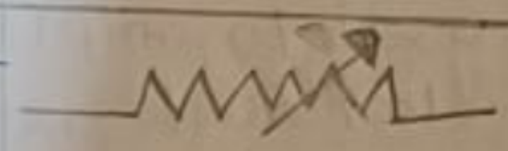
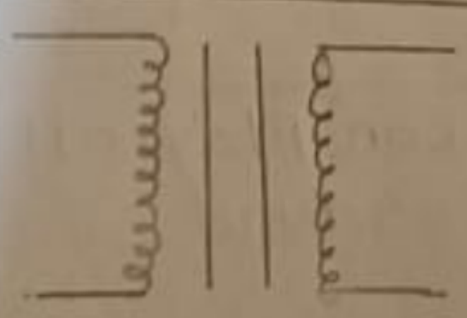
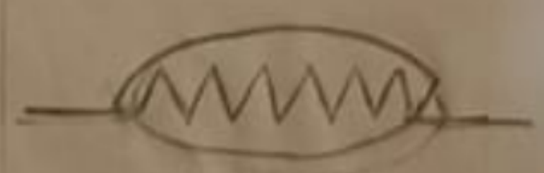
Remarks

Signature 11-9-2024

Shot on OnePlus
By sakshi

6]	IC Base		—
7]	7 seg		Display number
8]	bridge rectifier		convert into AC to DC

Passive components :

	Component	symbol	Specification
1]	Resistor		To control the flow of current (1kΩ 10kΩ)
2]	capacitor		Storing electrical energy (470μF. 220μF)
3]	Potentiometer		—
4]	Transformer		To reduce voltage c to reduce voltage for convnt
5]	L.D.R		Resistance decreases with increases light intensity

Result - Active and pasive component verified