

071306T4EEN

ELECTRICAL ENGINEERING (POWER OPTION) LEVEL 6

ENG/OS/PO/CR/04/6

Demonstrate Understanding of Electronics

Nov/Dec 2024



TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)

PRACTICAL ASSESSMENT

Time: 1 ½ HOURS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following task:
TASK: Assemble an electronic circuit on the copper strip board and measure voltages at the given test points.
2. You have been provided with the following resources for the practical tasks:
 - i. Transformer
 - ii. 4 diodes
 - iii. 1000 μ F capacitor
 - iv. 100 μ F capacitor
 - v. 470 μ F capacitor
 - vi. 5.6V Zener diode
 - vii. 2.2K Ω resistor
 - viii. 2N 3054 Transistor
 - ix. 2N3055 Transistor
 - x. 10K Ω Resistor
 - xi. 56 Ω resistor
 - xii. Copper strip board
 - xiii. Solder wire
 - xiv. Jumper wires
 - xv. 240V AC power supply

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TASK: Assemble the below circuit on the copper strip board and measure voltages at the given test points.

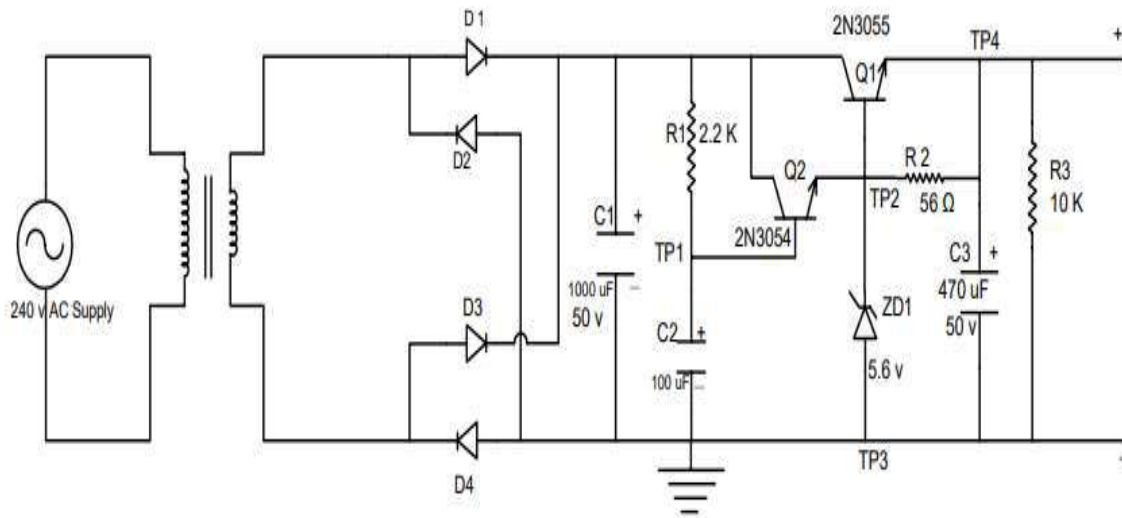


Figure 1

- a) Use the components provided to assemble and mount the above circuit on a copper strip board
- b) Solder the circuit
- c) Power your circuit ,
- d) Measure voltages at the following test points and record the results
 - i. TP1
 - ii. TP2
 - iii. TP3
 - iv. TP4