higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

MULTI-DISCIPLINARY DRAWING OFFICE PRACTICE: ELECTRIAL DRAUGHTING

08 December 2023

This marking guideline consists of 7 pages.

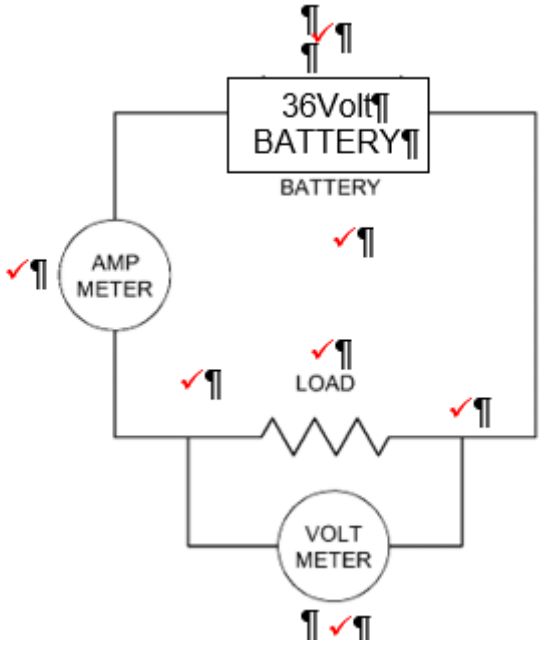
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MARK ALLOCATION SUMMARY							
ELEMENT	**QUESTION**	**1**	**2**	**3**	**4**	**5**	**%**
Balanced layout and size		0	5	4	5	4	**18%**
Correctness		20	10	6	5	7	**48%**
Lettering		0	-	5	5	5	**15%**
Linework and neatness		0	5	5	5	4	**19%**
Total		**20**	**20**	**20**	**20**	**20**	**100%**

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QUESTION 1: GENERAL THEORY

1.1



(7)

1.2 36 Volt (1)

1.3 4 Ampere (1)

1.4 R = V/I✓
= 36/4✓
= 9 **Ω**✓ (3)

1.5 P = V × I✓
= 36 × 4✓
= **144 W**✓ (3)

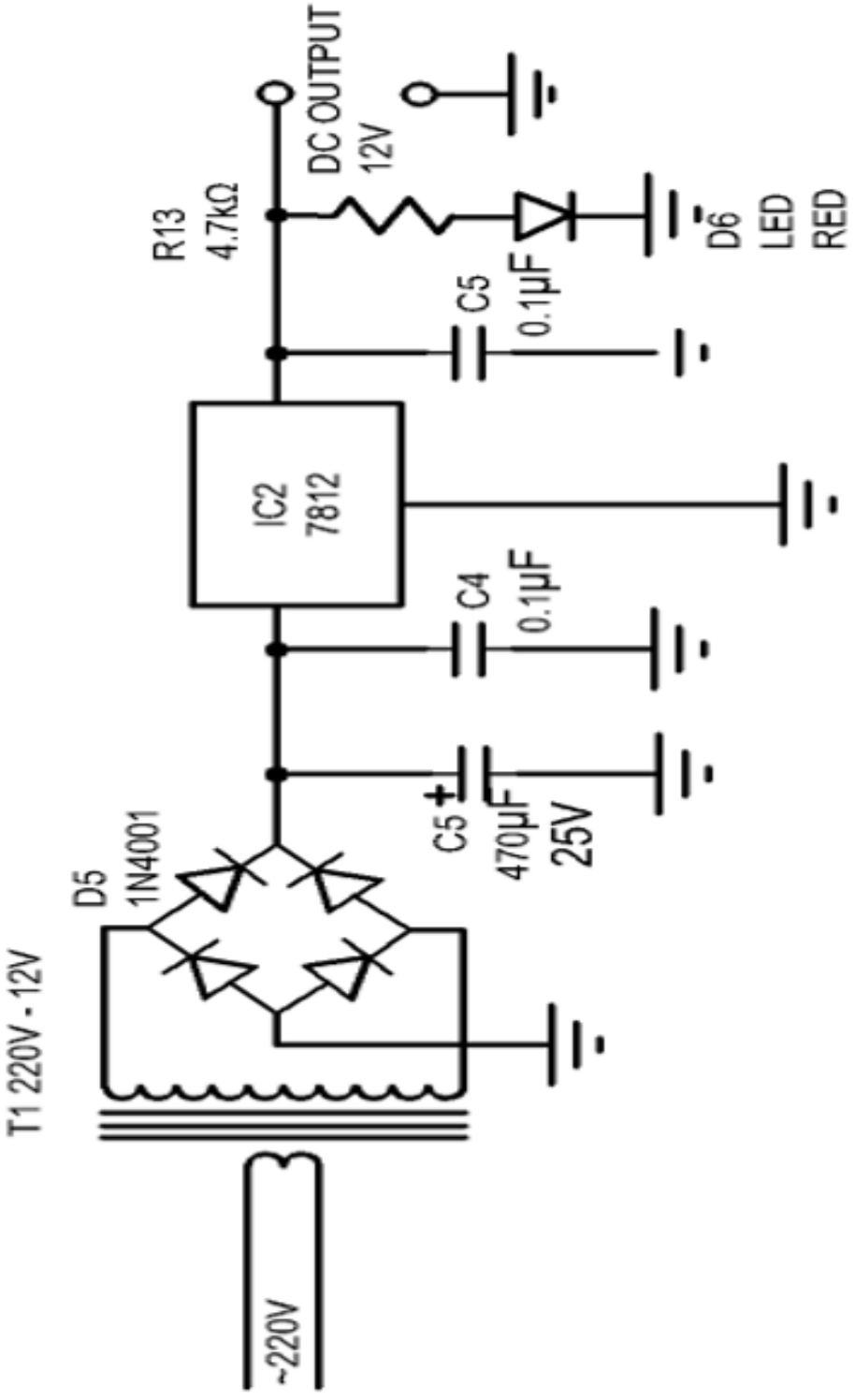
1.6 To measure✓ power(watt)✓ of a circuit. (2)

1.7
- Direct current✓
- Connected to a 36 V battery✓ and a battery is always direct current✓ (3)

[20]

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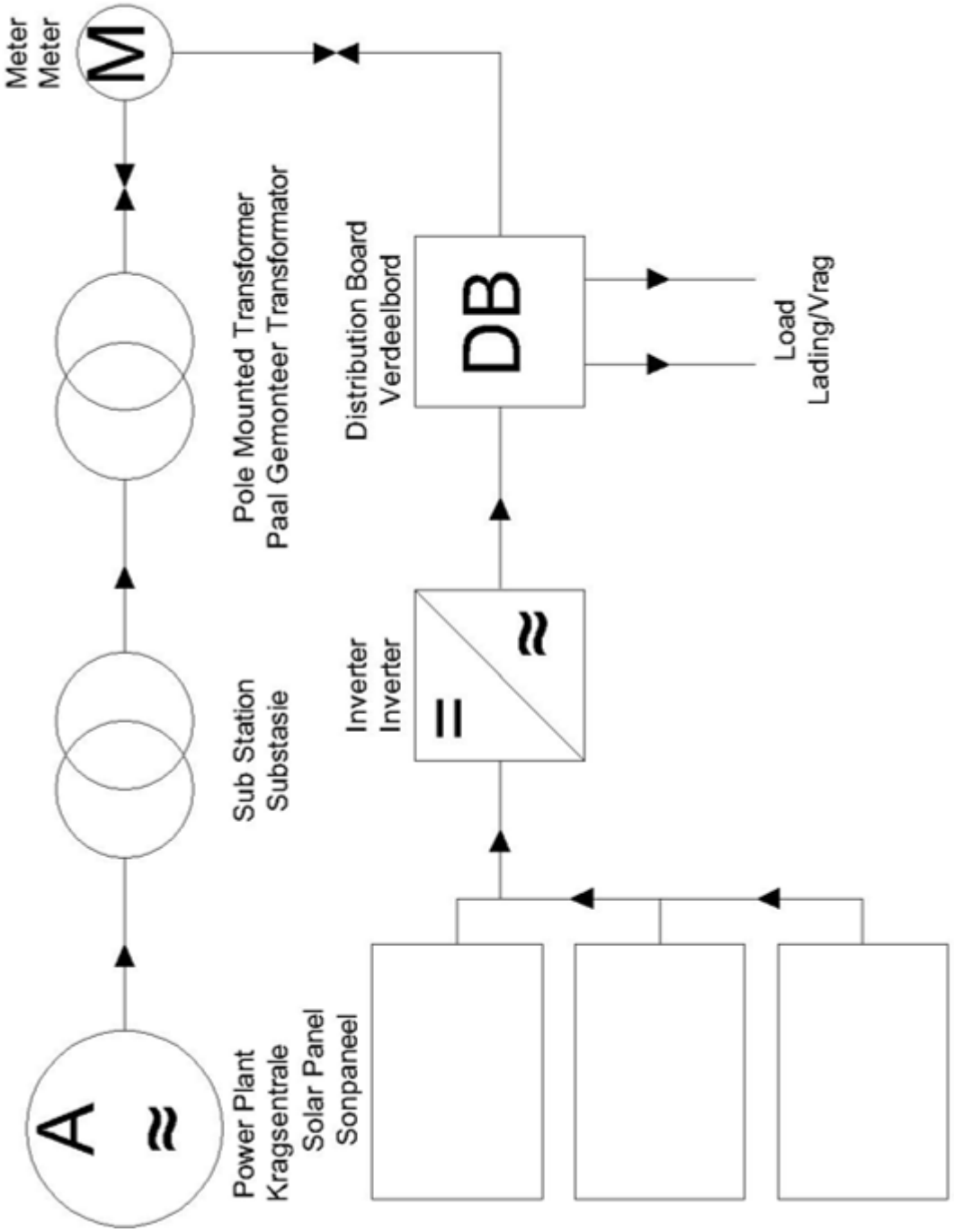
QUESTION 2: GRAPHICAL SYMBOLS AND ELECTRONIC DIAGRAMS



Balanced layout and size	10 × ½ = 5
Correctness	10 × 1 = 10
Lettering	6 × ½ = 3
Linework and neatness	4 × ½ = 2

[20]

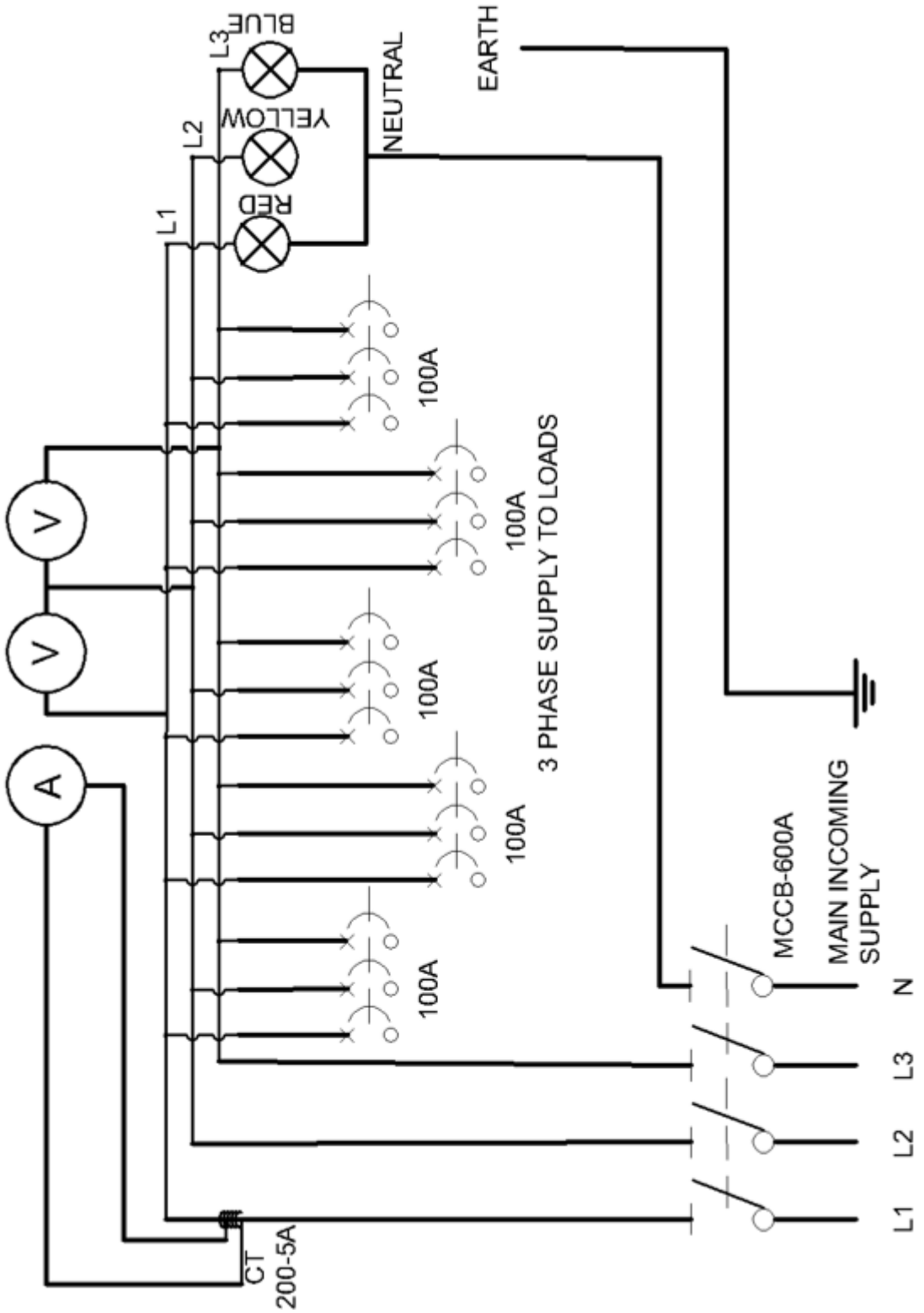
QUESTION 3: GENERATION AND DISTRIBUTION OF ELECTRICITY



Balanced layout and size	4
Correctness	6
Lettering	5
Linework and neatness	5

[20]

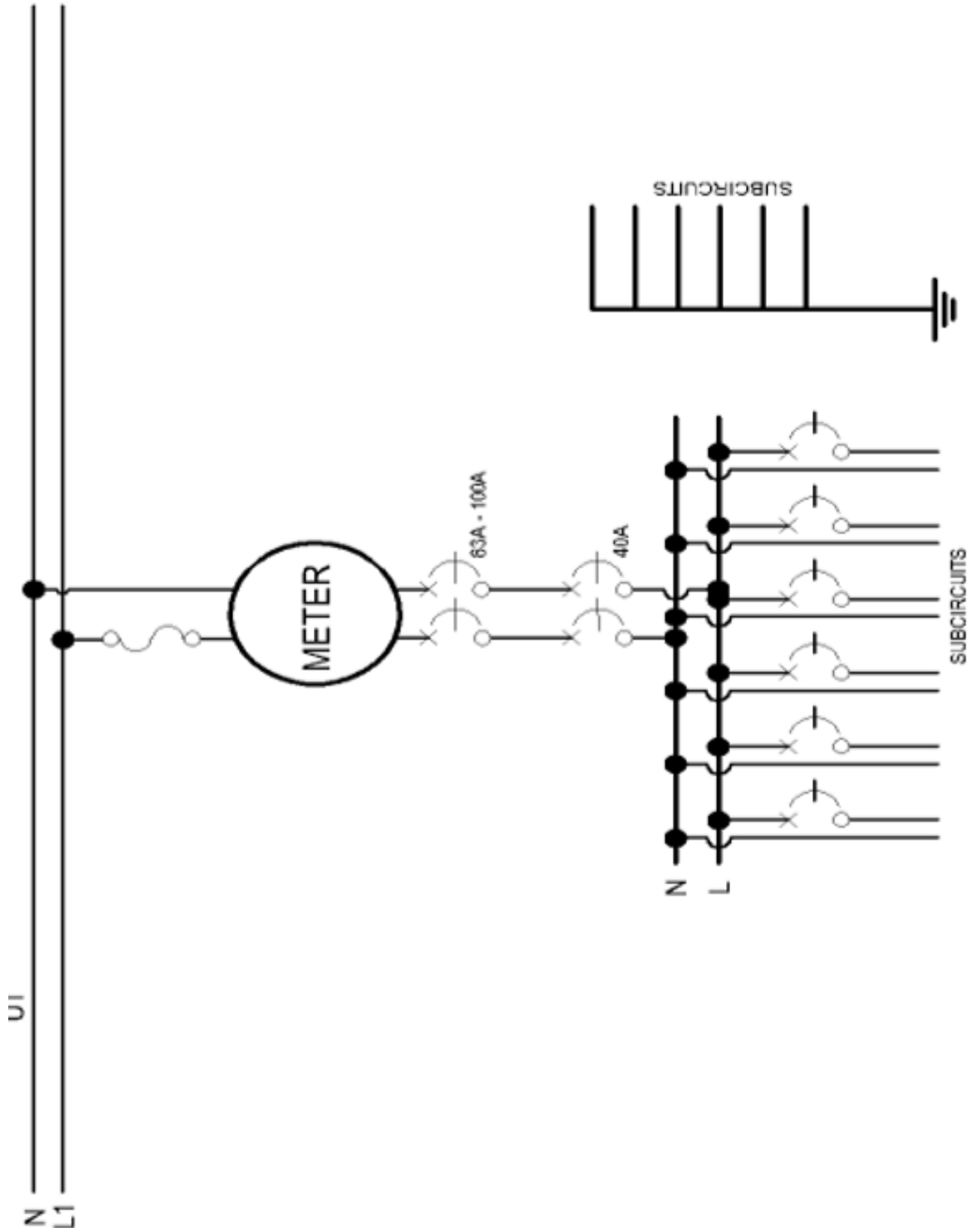
QUESTION 4: ELECTRICAL MOTORS AND CONTROL DEVICES



Balanced layout and size	5
Correctness	5
Lettering	5
Linework and neatness	5

[20]

QUESTION 5: WIRING OF PREMISES



Balanced layout and size	4
Correctness	7
Lettering	5
Linework and neatness	4

[20]

TOTAL: 100

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