



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF EDUCATION

VHEMBE WEST DISTRICT

GRADE 08

TECHNOLOGY
NOVEMBER MARKING GUIDELINE
2024

MARKS: 80

This **MEMO** consists of **FIVE (05)** pages including the cover.

SECTION A **32 MARKS**

QUESTION 1

1. C ✓
2. B ✓
3. A ✓
4. A ✓
5. A ✓
6. B ✓
7. D ✓
8. B ✓
9. A ✓
10. C ✓

[10]

QUESTION 2

1. False ✓
2. False ✓
3. True ✓
4. False ✓
5. False ✓
6. True ✓
7. False ✓
8. True ✓
9. False ✓
10. True ✓

[10]

QUESTION 3

3.1.

3.1.1. D✓

3.1.2. A✓

3.1.3. C✓

3.1.4. B ✓

(1×4) = [4]

3.2.

3.2.1. **Electrical current:** The flow of electric charge through a conductor. ✓ ✓

3.2.2. **Voltage:** The electric potential difference between two points. ✓ ✓

3.2.3. **Load in a circuit:** The component that consumes power in a circuit, like a light bulb or motor. ✓ ✓

3.2.4. **Input:** The force, energy, or power supplied to a system. ✓ ✓

(2×4) = [8]

SECTION B 36 MARKS

QUESTION 4

4.

4.1. Construction sites✓ ✓ or mining areas✓ ✓

4.2. To support heavy loads or provide a stable framework. ✓ ✓

4.3. Steel✓ , concrete✓ , or wood✓

4.4. Hard hats✓ , safety goggles✓ , and gloves✓

4.5. Civil engineer ✓ , construction worker✓ , safety officer✓ .

4.6. Job creation✓ ✓ , infrastructure development✓ ✓ , economic growth✓ ✓

[19]

QUESTION 5

5.

5.1. A pulley system reduces the amount of force needed to lift an object by changing the direction of the force✓ ✓ Example: Lifting water from a well✓

5.2. $I = \frac{V}{R}$

$$I = \frac{10}{5} \checkmark \checkmark$$

$$I = 2A \checkmark$$

5.3.

Energy Source	Advantages	Disadvantages
Coal	Reliable, abundant✓	Pollutes environment, non-renewable✓
Sun	Renewable, clean energy ✓	Weather dependent, high initial cost✓
Hydro-electric	Renewable, efficient✓	Expensive to build, environmental impact✓

(1×6) = [6]

5.4. -It is dangerous and can cause fires✓

-It leads to power outages and increased costs for legal consumers✓

5.5. $V = I \times R$

$$V = 2A \times 6\Omega \quad \checkmark \quad \checkmark$$

$$V = 12V \quad \checkmark$$

[17]

SECTION C

QUESTION 6

6.

6.1.

6.1.1. First-class lever. ✓✓

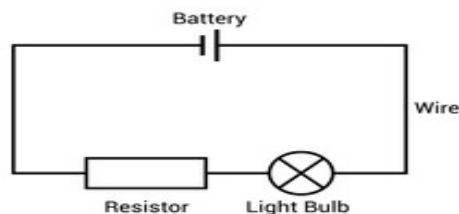
6.1.2. A lever system where the fulcrum is located between the input force and the output load. ✓✓

$$6.1.3. MA = \frac{EFFORT \text{ ARM}}{LOAD \text{ ARM}}$$

$$MA = \frac{450}{150} \quad \checkmark \quad \checkmark$$

$$MA = 3 \quad \checkmark$$

6.2.



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✓ For Battery , ✓ wire , ✓ Resistor , ✓ Light bulb and ✓ closed switch (5)

TOTAL MARKS SECTION C = 12

TOTAL MARKS = 80