



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

CAPRICORN SOUTH DISTRICT

SENIOR PHASE

GRADE 7

TECHNOLOGY

MID-YEAR TEST

27 MAY 2024

Marks: 60

Durations: 1 hour 30 minutes

MEMORANDUM

SECTION A- [30]

QUESTION 01- Multiple choice [06]

1.

1.1. B ✓

1.2. A ✓

1.3. C ✓

1.4. A ✓

1.5. D ✓

1.6. A ✓

QUESTION 02- True or False [06]

2.

2.1. False ✓

2.2. False ✓

2.3. True ✓

2.4. True ✓

2.5. True ✓

2.6. True ✓

QUESTION 03- Fill- in [06]

3.

3.1. Manufactured/ man-made structures ✓

3.2. Contain ✓

3.3. Design brief ✓

3.4. Investigate ✓

3.5. Communicate ✓

3.6. Mechanical advantage ✓

QUESTION 04- Match Column [06]

4.

4.1. D ✓

- 4.2. C ✓
- 4.3. E ✓
- 4.4. F ✓
- 4.5. A ✓
- 4.6. B ✓

QUESTION 05- Definitions [03]

- 5.
- 5.1. **Investigate:** means researching the problem, study it to find facts, existing solutions and possible solutions. ✓
- 5.2. **Natural structure:** are structures that occur in nature and are not made by people, e.g., trees, plants, and rock formations, caves, skeletons and bones. ✓
- 5.3. **Outline:** Outline are drawn using thick, dark bold lines/ These line gives basic shape of the object being drawn/ outlines are the darkest lines in a drawing. ✓

QUESTION 06- Terminologies [03]

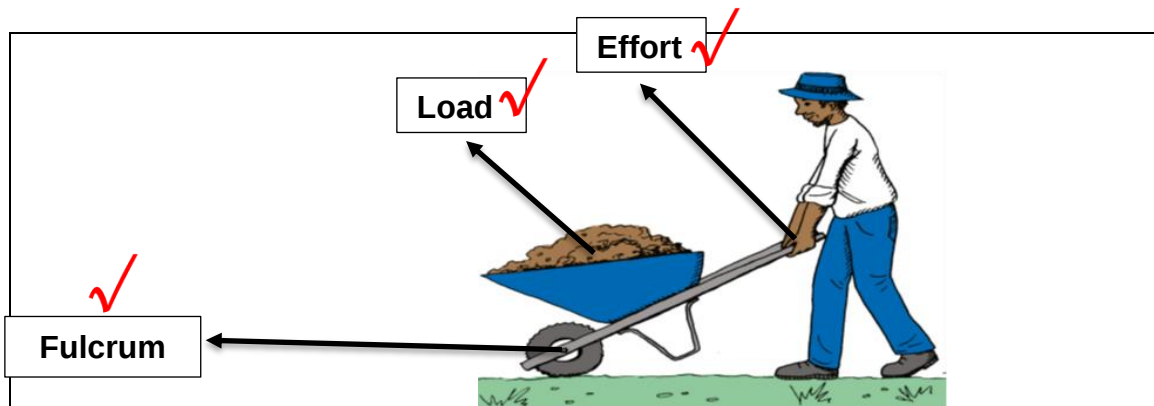
- 6.
- 6.1. Spans ✓
- 6.2. Scale ✓
- 6.3. Specifications ✓

End of section A: 30 Marks

SECTION B- [18]

QUESTION 07- [06]

- 7.
- 7.1.



- 7.2.
- a) *(Award marks for any other relevant disadvantage)*

- i. Towers might be considered unattractive resulting to visual pollution. ✓
 - ii. Many towers needed, may be very costly to make and maintain. ✓
- b) Cell phone towers transmit the information of your voice via radio waves to relay towers. ✓

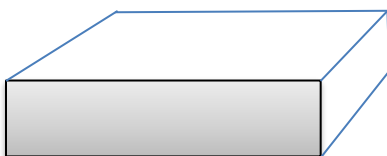
QUESTION 08- [06]

- 8.
- 8.1.
- i. Span ✓
 - ii. Support ✓
 - iii. Man-made structure ✓
 - iv. Natural structure ✓
 - v. Frame ✓
 - vi. Solid ✓

QUESTION 09- [06]

- 9.
- 9.1. First-class lever ✓✓
- 9.2. The fulcrum is between the effort and the load/force. ✓✓
- 9.3.

_____ x VP



Criteria	Possible marks	Marks obtained
Is the drawing a 3D drawing?	1	
Is the drawing neat and showing evidence of the vanishing point perspective?	1	
Total	02	

End of section B: 18 marks

SECTION C- [12]

QUESTION 10- CASE STUDY [12]

10.

10.1. The people living around the area affected by tornado have been struggling to communicate using their cell phones as there was no signal. ✓✓

10.2. To design and make a cell phone tower that will be used by the residents of Tembisa informal settlement in Ekurhuleni to improve the signals of their cell phones so they may be able to communicate very well. ✓✓

10.3. *(Award marks for any other relevant response)*

- i. The Tembisa informal settlement residents/ everyone staying at Tembisa informal settlement in Ekurhuleni. ✓
- ii. In and around Tembisa informal settlement in Ekurhuleni. ✓
- iii. Yes, it may cause visual pollution. ✓

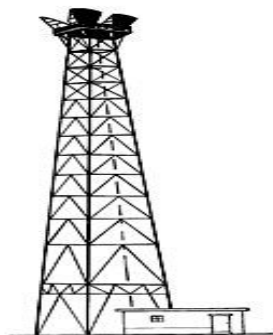
10.4.

10.4.1. Time ✓

10.4.2. Materials/Tools ✓

(Award marks for any other relevant constraints)

10.5.



Assessment criteria for freehand sketch

Criteria	Possible marks	Marks obtained
Is the drawing a 3D and showing evidence of the conventions and neatness?	1	
Is the drawing showing triangulation and struts?	1	
Is the drawing showing evidence of innovation and creativity?	1	
Total	03	

End of section B: 12 marks

SECTION A: [30] + SECTION B: [18] +SECTION C [12]
TOTAL MARKS: 60