

Hillcrest High School
Geography
Examiner: CR Madeley

Grade 11
November 2013

Marks: 80
Time 1 ½ hrs

Paper 2

Mapwork

Instructions:

Refer to the topographical map and the orthophoto map of Kimberley to answer the questions that follow.

All questions must be answered on this question paper in the spaces provided.

You may not write on the maps or photos except for light pencil work which must be erased before you hand your map in.

Show your working for calculations and write your answers clearly.

Write your name on the paper.

Name: _____

Teacher: _____

Question One Short answer questions.

1.1 Name the two main primary activities that take place in and around Kimberley. (2)

1.2 Name one recreational feature in grid L 17 on the topographical map. (2)

1.3 Which town is approximately 80 km West of Kimberley? (2)

1.4 Write down the reference of the orthophoto immediately to the North of the Orthophoto you have been given. (2)

15 What type of view does the orthophoto show of the area? Choose the correct answer:

- high oblique
- low oblique
- vertical
- exaggerated

(2)

16 The scale of the orthophoto is smaller/larger/clearer than the scale of the topographical map.

(2)

17 Kimberley is known for its famous "Big Hole" - an old open cast mine. In which grid block on the topographical map does it occur?

(2)

18 In which direction does the river in grid I 10 flow?

(2)

19 Name the environmental problem evident just south of the Vaal River.

(2)

1.10 Give the altitude of the mine dump immediately to the east of the De Beers mine in grid M 17

(2)

[20]

Question Two**Calculations**

- 21 An aeroplane takes off from the western edge of the landing strip in grid M 10. It then flies in a straight line towards the trig beacon 28 to the North West. (J4)

What equivalent distance along the ground will it have covered by the time it reaches the trig. beacon? Answer in kilometers. (2)

- 22 What true bearing will it be flying on? (4)

- 23 Calculate the magnetic declination for the topographical map for 2013. (4)

- 24 Study the relief of the mapped area. Suggest a reason why this examiner chose not to ask you to calculate gradient. (3)

- 25 A train travels from the golf course station to the bridge in grid I 17 at 60 km /hr. How many minutes did the journey take? (4)

26 Give the altitude of the reservoir in grid **J16** north of the town. (2)

Question Three **Land use and physical interpretation**

3.1 State **three** pieces of evidence from the mapped area that suggest that water in this region is a scarce resource. (6)

3.2 Explain one way in which water scarcity has limited development in the area. (3)

3.3 Suggest two ways in which the Vaal River has contributed to the area and the people that live there. (4)

3.4 Name the important river feature formed by the river in grid A2. (2)

3.5 Suggest a reason why the natural feature in grid H8 should be conserved. (2)

3.6 Suggest a reason why the expansion of Kimberley's residential areas eastwards may be limited/problematic. (3)

3.7 Identify the secondary activity land use taking place in the north east of the orthophoto area. (2)

3.3 Suggest two advantages of the location of this land use here. (4)

Question Four GIS

4.1 What does the acronym GIS stand for? (2)

4.2 Differentiate between spatial and attribute data. You may use examples in your answer. (4)
