
HILLCREST HIGH SCHOOL

GEOGRAPHY PAPER 2 MAPWORK

GRADE 11

TIME: 1 ½ HOURS

JUNE 2017

MARKS: 75

NAME AND SURNAME: _____

GEOGRAPHY TEACHERS NAME: _____

INSTRUCTIONS AND INFORMATION

The Questions in this Paper are based on the 1:50 000 S.A topographical Map of 2824DB Kimberley and the 1:10 000 S.A Orthophoto Map 2824 DB 21 Kimberley.

1. Write your name in the space provided above.
 2. A non-programmable calculator may be used.
 3. Answer all questions in the spaces provided on the question paper.
 4. The Topographical map and Orthophoto must be handed in – please erase pencil working after you have finished writing.
 5. Show all your working for calculations and write neatly.
-

QUESTION ONE

SHORT QUESTIONS

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

1.2 Which town is approximately 120Km South of Kimberley? 2

1.3 Write down the reference of the Orthophoto immediately to the North of the Orthophoto you have been given. 2

1.4 What type of view does the Orthophoto show of the area? Choose the correct answer:

1. High oblique

2. Low oblique

3. Vertical

4. Exaggerated

2

1.5 The scale of the Orthophoto is ~~smaller/larger/clearer~~ than the scale of the topographical map. _____ 1

1.6 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

1.7 Give the altitude of the mine dump immediately to the east of the De Beers mine in Grid G3. _____ 2

(13)

QUESTION TWO

CALCULATIONS

2.1 Calculate the straight line distance from Kimberley Station to Colville. Answer in Kilometers. 2

2.2 Measure the true bearing of the Mine dump in (D4) to the Reservoir in B2. 2

2.3 Calculate the magnetic declination for the topographical map for 2017. 3

2.4 Describe the relief of the land in the mapped area. 3

3.3 State three pieces of evidence from the mapped area that suggest that water in this region is a scarce resources 6

3.4 Explain one way in which the water scarcity has limited development in the area. 3

3.5 Suggest one reason why the expansion of Kimberley's residential areas eastwards, may be limited / problematic. 3

3.6 Identify the secondary activity (land-use) taking place at E and M of the orthophoto area. 2

3.7 Suggest two advantages of the location of this land-use here. 4

(29)

QUESTION FOUR

4.1 What does the acronym GIS stand for? 2

4.2 Trig beacon ▲ 1234, 7 can be found in (F1)
Does the height represent a spatial or attribute data? 2

4.3 Spatial objects are represented by means of lines, points or polygons.
Give an example of each from the map: 2

Line feature:

Polygon feature:

4.4 Does the orthophoto display a higher or a lower resolution? Give a reason for your answer. 3

4.5 Explain how GIS can be used by town planners to determine the most suitable site for a new Residential area. 4

(13)