

Grade 11
November 2017

Hillcrest High School
Geography Paper 2

Time: 90 mins
Marks: 75

Examiner: C R Madeley

Study the topographical map and the orthophoto of Humansdorp.

1. Write all answers clearly in the spaces provided on this question paper
2. Show your working for calculations and write neatly.
3. Write your name below.
4. Normally two marks are awarded per fact or answer.

Name: _____

Question One General orientation and map knowledge

1.1 State the co-ordinates of Humansdorp in degrees.

_____ 2

1.2 The orthophoto is an example of a vertical aerial photograph. State two advantages that this has over an oblique aerial photograph. 4

1.3 Which of the two maps has the larger scale? Explain one effect of this difference in scale for the person using the orthophoto map. 4

1.4 Write down the map title of the topographical map immediately to the North East of the Humansdorp map.

2

1.5 A number of man-made and natural features are labelled with letters on the topographical map. Identify the following:

P- _____

Q- _____

W- _____

Y- _____

4

1.6 State the altitude of the feature W.

1

1.7 Identify the following land uses labelled on the orthophoto.

10- _____

13- _____

2

1.8 Identify the landform represented by the contours between 3 and 4 on the orthophoto. 2

1.9 Explain two effects this feature in 1.8 may have on soil erosion. 4

Question Two Geographical techniques

2.1 Calculate the distance in metres between S and R on the topographical map. 2

2.2 Along what **true bearing** would a motorist travel if she drove from the Zalverige valley dam in block B7 towards Plettenberg Bay.

3

2.3 Explain why the magnetic bearing for this route would have a larger value than the true bearing for this map. 4

2.4 What type of route is the N2? 1

2.5 Suggest why the N2 turns Northwards after the dam in B7. 2

2.6 Identify one man-made feature along the N2 route that may cause an environmental problem. State one way to deal with this problem. 2

2.7 Supply a name for the rows of trees along the N2 in Block A 10. Suggest a reason for their location. 4

2.8 With reference to activities in the mapped area suggest how this area contributes to economic development in the Eastern Cape. 4

2.9 Paradise beach in G8 and G9 is the site of a new urban development. With reference to its location suggest THREE strategies that should be used to ensure sustainable development of the coastline and its community. 6

2.10 Draw a free-hand (rough) cross-section of the landform from spot height 24 (F7) t trig. station number 290 (F8) on the topographical map. Use the space provided on the following page.

Label the start and end points of your cross section and any important natural features that may occur along the cross section. 4

3.4 Name ONE attribute of the N2 in block A2.

2

3.5 Data integration is combining different types of data for the purpose of decision-making. Describe TWO types of data that a farmer in block A5 will consider before cultivation.

4

3.6 Suggest how a GIS could assist planners decide on the site for a new water treatment works for purifying waste water from Jeffrey's Bay.

4

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