

MATRIC GEOGRAPHY PAPER 2 2009

QUESTION 1

The following questions are based on an extract from the 1:50 000 topographical map, 3030CB Port Shepstone as well as an orthophotograph that covers part of the same area. Possible answers are provided as answers to the following questions. Choose the correct answer and write down only the question number and the letter of the correct answer.

- 1.1 The province in which Port Shepstone is located is...
- A Mpumalanga
 - B KwaZulu-Natal
 - C Eastern Cape
 - D Southwestern Cape
- 1.2 The number of the map to the east of 3030CB Port Shepstone is...
- A 3030CA
 - B 3031DA
 - C 3130CA
 - D 3030DA
- 1.3 The exact coordinates (location) of the tidal pool in Block E5 are...
- A $30^{\circ}42'50''\text{S}; 30^{\circ}28'55''\text{E}$
 - B $30^{\circ}42'10''\text{S}; 30^{\circ}28'55''\text{E}$
 - C $30^{\circ}41'50''\text{E}; 30^{\circ}28'55''\text{S}$
 - D $30^{\circ}28'55''\text{S}; 30^{\circ}41'50''\text{E}$
- 1.4 The human-made feature labelled I on the topographical map is a...
- A railway line
 - B main road
 - C secondary road
 - D footpath
- 1.5 The direction of Sharks Rocks (Block F5) from Tweni Rocks (Block E5) is...
- A south-west
 - B north-east
 - C north north-east
 - D west south-west
- 1.6 The contour interval of the map is...
- A 10 m
 - B 5 m
 - C 20 km
 - D 20 m

1.7 The orthophotograph covers the area of the map lying in Blocks...

- A E2, E3, F2, F3
- B E1, E2, F1, F2
- C E3, E4, F3, F4
- D E2, F2, G2

1.8 The scale of the orthophotograph is...

- A 10 times bigger than the map
- B 5 times smaller than the map
- C 5 times bigger than the map
- D the same as the map

1.9 The natural feature at D on the orthophotograph is...

- A a sandbank
- B an outcrop of rocks
- C a recently-ploughed field
- D an area of excavations

1.10 Port Shepstone is a...

- A specialised town
- B central place town
- C gap/gateway town
- D railway town

(10 x 2) (20)
[20]

QUESTION 2

2.1 You travel from Durban to Margate along the N2 indicated on the map. How far do you travel? Show all your calculations. Express your answer in kilometres. (4)

2.2 How long would it take you to get from Durban to Margate if you travel at 80 km/h? (2)

2.3 Both the N2 and the railway line were built close the coastline.

2.3.1 Suggest why they were constructed here. (1 x 2) (2)

2.3.2 Explain why the position of the railway line could be a disadvantage to people. (1 x 2) (2)

2.3.3 A new freeway is being constructed further inland. What evidence on the map indicates that it was not completed when the map was drawn? (1 x 2) (2)

2.3.4 Look at this road on the map and on the orthophotograph. Decide whether the photograph was taken before or after the map was drawn and explain your answer. (2 x 2) (4)

Note: The calculations on the memo were made using an A3 map. If you use an A4 map your calculations will be different.

- 2.4 You walk from spotheight 92 (close to the northern edge of the orthophoto) in a southerly direction to the railway line (spoorweg). What is the average gradient of your hike? Show all your calculations. (6)
- 2.5 Is point A visible from spotheight 92? Explain your answer. (1 x 2) (2)
- 2.6 Calculate the area of the field marked C on the orthophoto. Show all your calculations. Give your answer in square metres. (3)
- [27]**

QUESTION 3

- 3.1 A sawmill is indicated at E on the orthophotograph.
- 3.1.1 Classify this economic activity as a primary, secondary or tertiary activity. (1)
- 3.1.2 Would the sawmill be flooded if the level of the river was to rise by 10 m? Explain your answer. (1 x 2) (2)
- 3.2 Compare the settlements in Block C1 with the settlements in Block A3 on the map. Tabulate your answer as indicated below.

	<i>Settlements in Block C1</i>	<i>Settlements in Block A3</i>
Economic activity (4 marks)		
Settlement pattern (2 marks)		
Services and infrastructure (4 marks)		

(10)

- 3.3 Look at the street patterns in Block G4 and in Block F4.
- 3.3.1 Name the dominant pattern in each block. (2)
- 3.3.2 Give one advantage and one disadvantage of each of the patterns you mentioned in Question 3.3.1. (4)
- 3.4 Name the land use zone NW of the railway line in Block G4. (1 x 2) (2)
- [21]**

QUESTION 4

- 4.1 Give TWO pieces of evidence from the map to prove that this area receives a lot of rainfall. (2 x 2) (4)

4.2 What evidence from both the map and orthophotograph indicates that the Mzimkulu River is in the lower course? State TWO factors. (2 x 2) (4)

- 4.3 Describe how the valley of the Mtentwini River in Block A1 will be different to the valley of the Mtentwini River in Block E5. (2 x 2) (4)
[12]

QUESTION 5

- 5.1 The 1:50 000 map was drawn from the Gauss conform projection. What are TWO characteristics of this projection? (2 x 2) (4)
- 5.2 What is a GIS? (2)
- 5.3 Differentiate between the raster and vector methods of storing data. (2 x 2) (4)
- 5.4 What is the difference between spatial and attribute data? (2 x 2) (4)
- 5.5 State TWO ways in which information for a GIS can be obtained. (2 x 2) (4)
- 5.6 Explain why maps are important in any GIS. (1 x 2) (2)
[20]

TOTAL 100