



Kulleġġ San Nikola Sekondarja tas-Subien, In-Naxxar  
St. Nicholas College Naxxar Boys Secondary  
**Half-Yearly Examinations**  
**February 2015**

FORM 3

GEOGRAPHY (Option)

TIME: 1 hour 30 minutes

Name \_\_\_\_\_

Class \_\_\_\_\_

**Instructions to Candidates**

Answer all questions in the space provided. Write your answers neatly and in good English. Credit will be given for relevant illustrations.

**Map Reading and Interpretation (13 marks)**

1. Use figure 1, an OS map of the town of Bath in England, to answer the questions on page 2. The scale of the map is 1 cm: 250m.

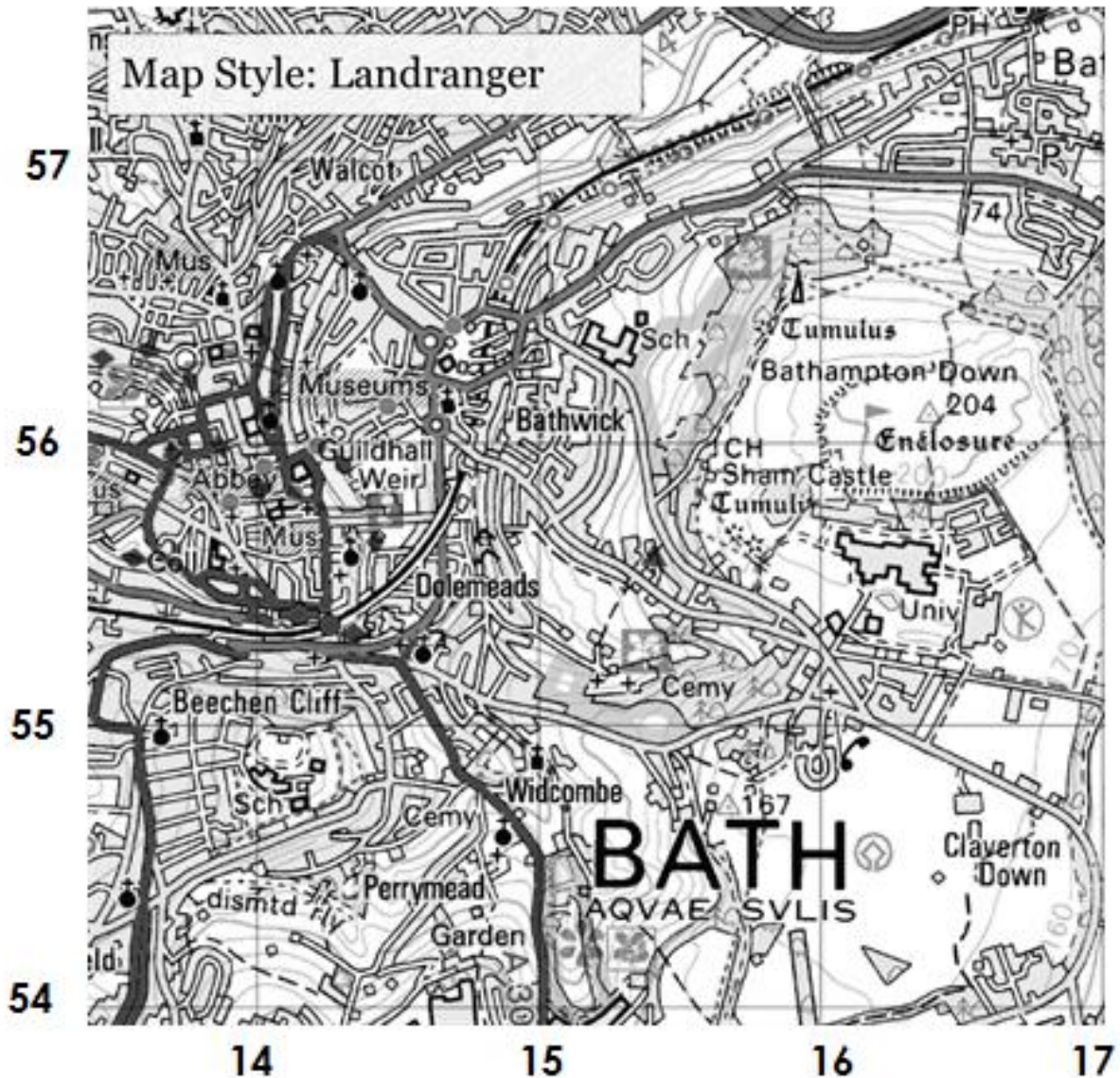


Figure 1

(a) What is the compass direction from:

Guildhall Weir to Beechen Cliff	
Bathwick to Claverton Down	

(2)

(b) What is found at the following grid references:

141547	
150548	

(2)

(c) Why is the area in grid square 1656 not built up?

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(2)

(d) What evidence is there that the area has a rich historical value?

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(2)

(e) What is the straight line distance between the church at 148546 and the church at 146562? Give your answer in metres.

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(2)

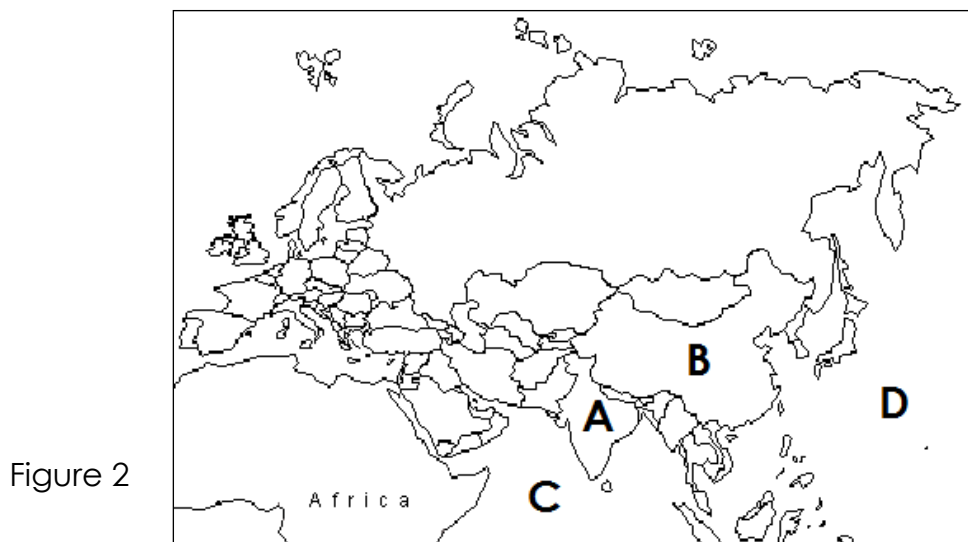
(f) What is the length of the railway shown on the map from 140554 to 166575? Give your answer in kilometres.

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(3)

**Location and Places (10 marks)**

2. Study figure 2, the map of Europe and Asia, and then answer the following questions.



(a) Name the countries marked:

<b>A</b>	
<b>B</b>	

(2)

(b) Name the oceans marked:

<b>C</b>	
<b>D</b>	

(2)

(c) On the map mark and name **two** countries members of the European Union.

(2)

(d) On the map mark and name **one** country with a low population density.

(1)

(e) On the map mark and name **one** country with a high population density.

(1)

(f) On the map mark the warm ocean current Kuro Siwo in the Pacific Ocean.

(2)

### Weather and Climate (16 marks)

3. Look carefully at figure 3 and then answer the following questions.

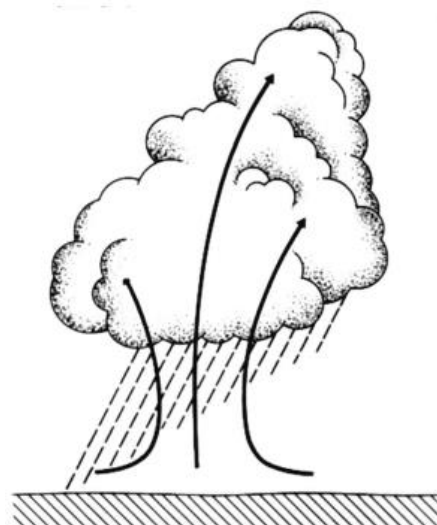


Figure 3

(a) Underline the correct answer from the words in brackets:

(i) This type of rainfall is called (relief/convectional/frontal) rainfall.

(ii) This type of rainfall is most common in (mountainous areas/ on the Equator/ in the North Pole).

(2)

(b) Use the following terms to label the diagram above:

**Precipitation**  
**Air cools as it rises**

**Warm air rises**  
**Ground warmed by the sun**

**Condensation**

(5)

4. (a) Fill in the empty boxes in figure 4 with the following terms:

**low pressure area**

**high pressure area**

**warm front**

**cold front**

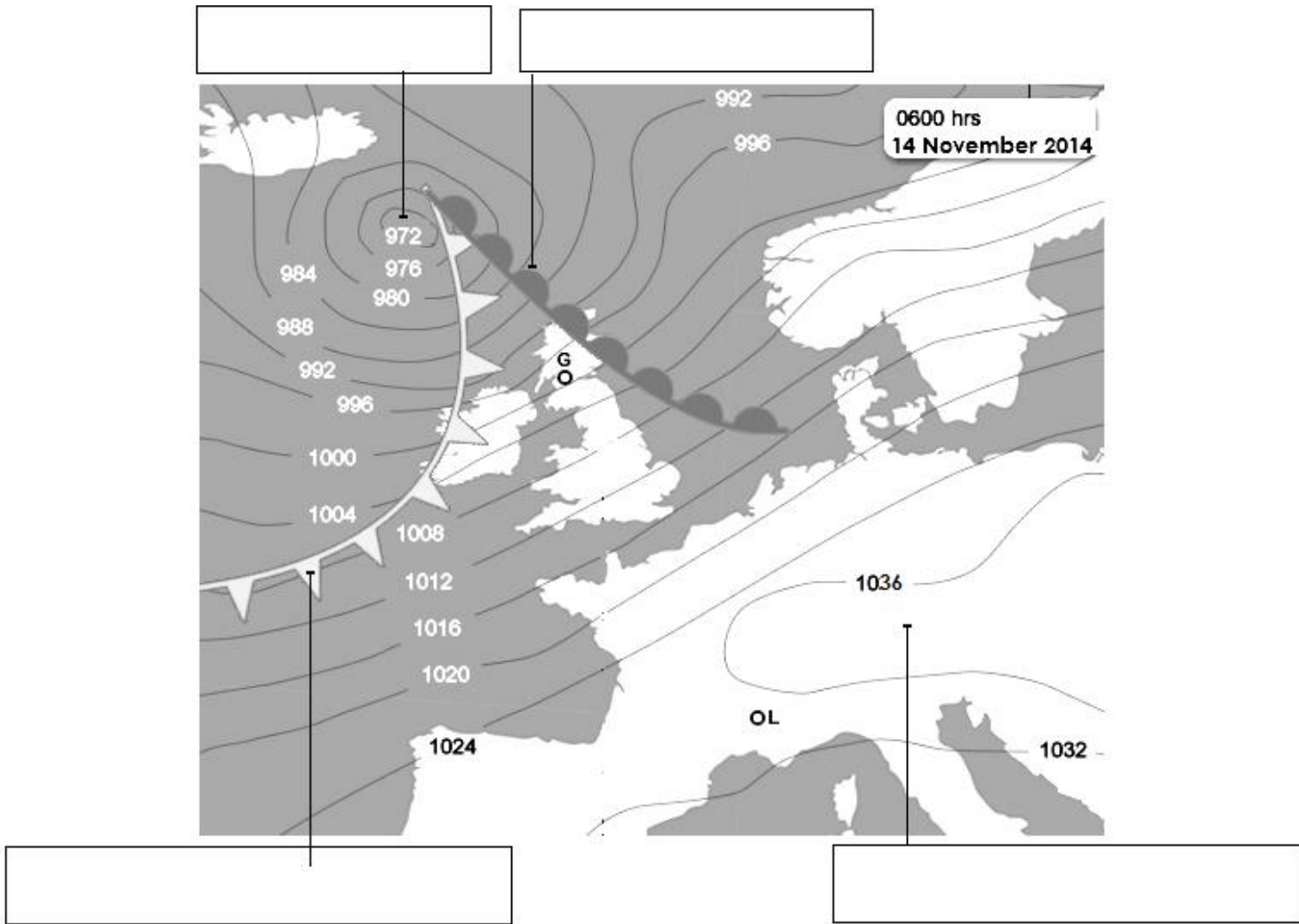


Figure 4

(4)

(b) Draw a weather station at point G to show:

- Temperature: 15°C
- Wind direction: South-west
- Wind speed: 5 knots
- Cloud cover: 4 oktas
- Precipitation: rain

(5)

**Socio-Economic Human Systems (20 marks)**

5. (a) Define the following terms:

**Birth rate:** \_\_\_\_\_

\_\_\_\_\_

**Death rate:** \_\_\_\_\_

\_\_\_\_\_

Natural increase: \_\_\_\_\_

Population density: \_\_\_\_\_

(4)

6. Some places in Brazil are densely populated whilst others are very sparsely populated as shown in figure 5. Use figure 5 to answer the following questions.

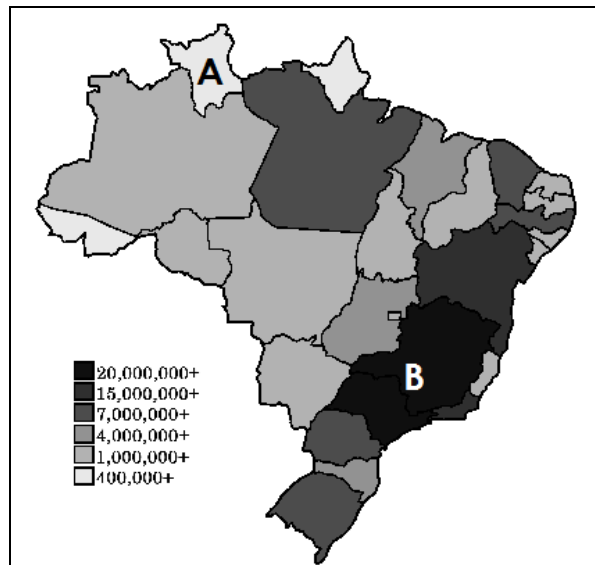


Figure 5

(a) Is the place marked by the letter A sparsely or densely populated?

\_\_\_\_\_ (2)

(b) Is the place marked by the letter B sparsely or densely populated?

\_\_\_\_\_ (2)

(c) Suggest reasons for the population density in the areas marked A and B on the map of Brazil.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4)

7. Thousands of illegal immigrants reach the Maltese Islands every year.

(a) Write **two** reasons why these people leave their country.

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(4)

(b) Write **two** problems that illegal immigration causes in the receiving country.

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(4)

**Landforms and Processes (23 marks)**

8. (a) Figure 6 shows lava erupting from a volcano in Hawaii in October 2014. What type of rock is being formed: sedimentary, igneous or metamorphic?

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(1)

(b) Give **one** reason for your answer.

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(2)



Figure 6

(c) Some people believe that there is a volcano on the island of Gozo. What argument or evidence would you use to convince these people that there are no volcanoes in Gozo?

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(2)

9. (a) Mark with a ✓ the correct statements related to the main rocks of the Maltese Islands.

All rocks in the Maltese Islands are sedimentary rocks.	
All rocks of the Maltese Islands are porous.	
All rocks of the Maltese Islands are permeable.	
Blue Clay is the only permeable rock layer in the Maltese Islands.	
An impermeable rock allows water to pass through it.	
Blue Clay is a porous but impermeable rock layer.	

(3)

(b) Re-write the incorrect statements in question (a) to make them correct.

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(3)

(c) What type of weathering is shown in figure 7? \_\_\_\_\_ (2)



Figure 7

(d) Explain how the rock in figure 7 is being weathered.

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(2)

(e) Figure 8 below shows the initial stage in the breaking down of rocks through freeze-thaw weathering. In the space provided draw two other **labelled diagrams** to show how freeze-thaw weathering will finally break up the rock.

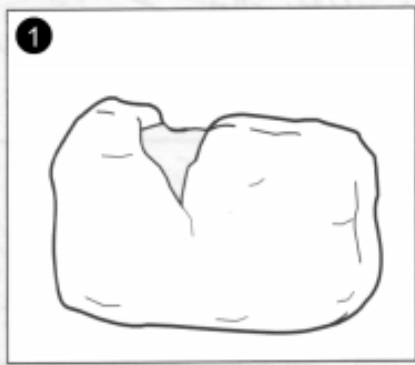


Figure 8

(4)

(f) Write a few sentences to describe how the process of freeze-thaw weathering occurs.

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(4)

**Environmental Concerns (18 marks)**

10. (a) Quarrying of limestone is an important industry in the Maltese Islands. Write **two** benefits of quarrying.

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(4)

(b) With the help of figure 9 write **four** problems caused by quarrying of limestone.

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(8)





Figure 9

(c) Describe in some detail **two** ways how a quarry may be used after quarrying has stopped.

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(6)

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