



Geography (Option)

Form 3

Time: 1 hour 30 minutes

Name _____

Class _____

Instructions: Answer all questions in this paper. The use of calculators is allowed.

1. Study carefully figure 1 showing the Earth's position in relation to the Sun and then answer the following questions.

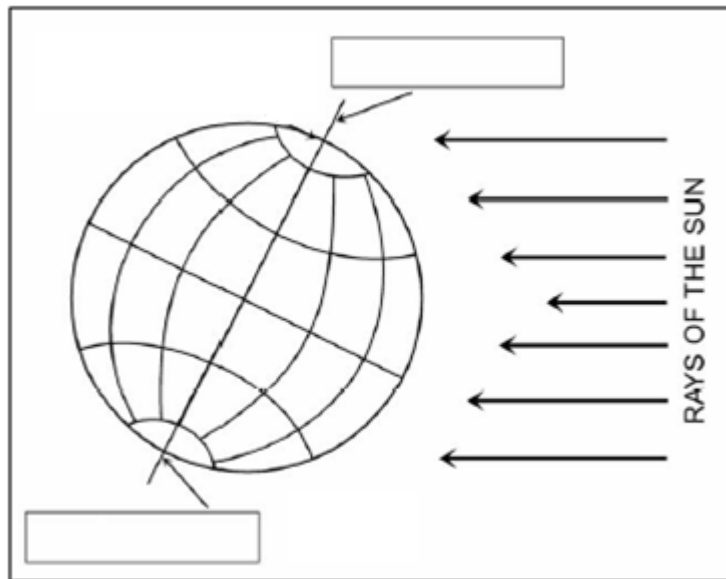


Figure 1

- (a) Label figure 1 with
- (i) the North Pole
 - (ii) the South Pole. (2)
- (b) With a dark pencil shade the part in darkness. (2)
- (c) Draw an arrow on the diagram itself to indicate the direction of the earth's rotation. (2)

2. Figure 2 shows two stages in the formation of a cave in a limestone region. Study the diagram carefully and answer the following questions:

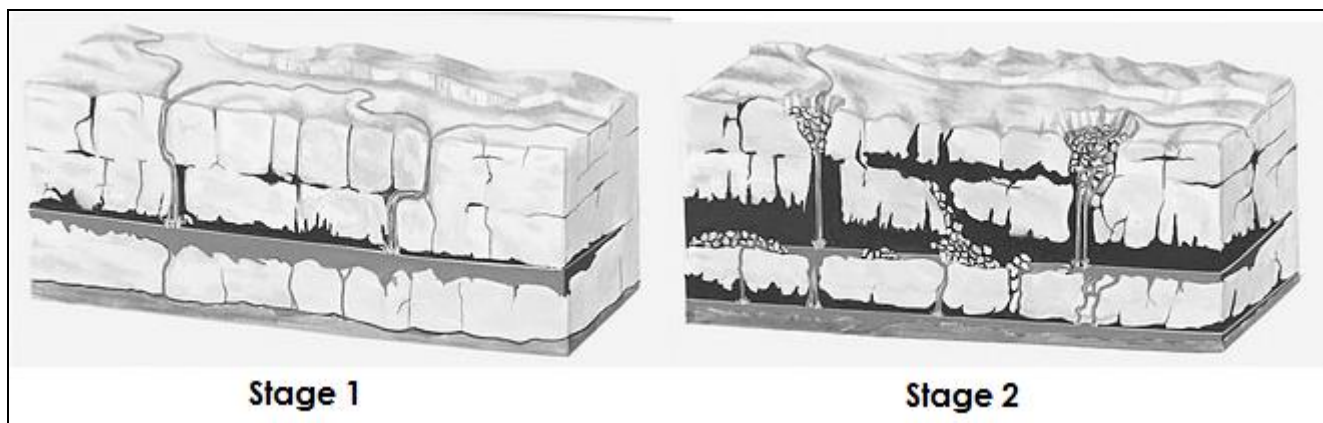


Figure 2

(a) Label figure 2 with the following terms:

bedding planes swallow hole cavern limestone pavement

(4)

(b) With the help of figure 2, write a brief paragraph to explain how caves in limestone areas form.

(4)

(c) Explain why fossils of sea creatures, such as those shown in figure 3, are found in sedimentary rocks like limestone.



Figure 3

(3)

(d) Label figure 4 to show two types of rocks that can be observed in the photo of the Qarraba area in the north-west of Malta. (4)



Figure 4

3. Study carefully the synoptic chart in figure 5 and answer the following questions:

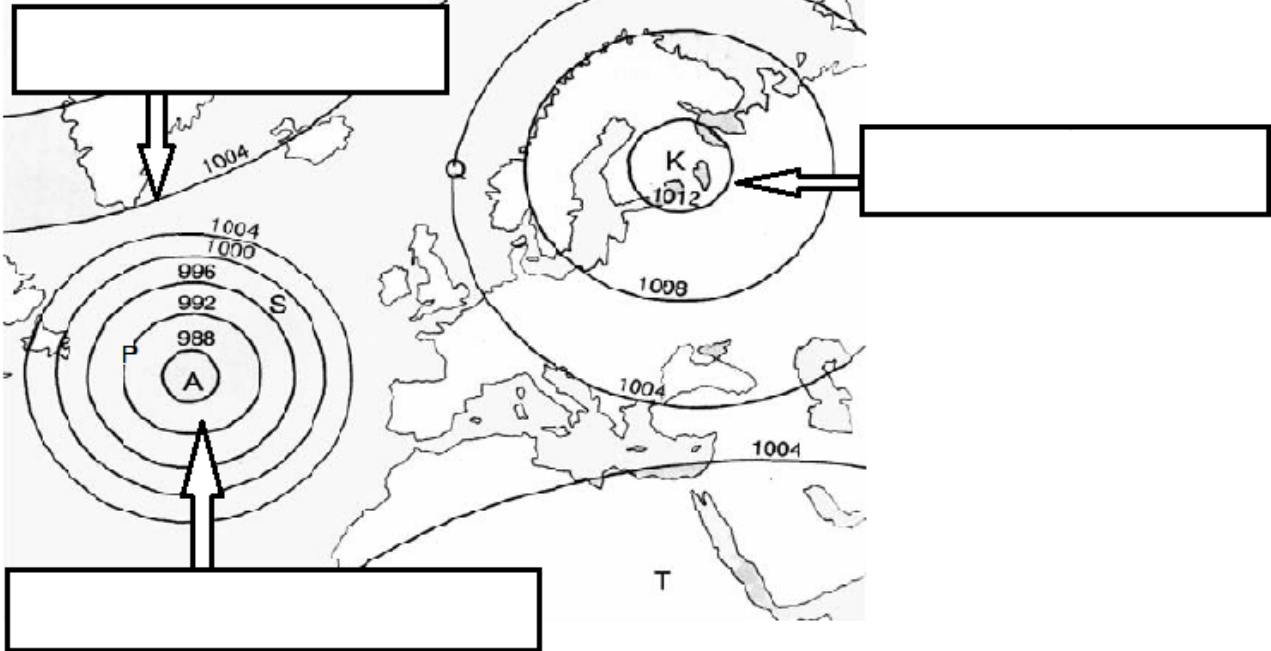


Figure 5

(a) Label figure 5 with the following terms:

isobars low pressure high pressure

(3)

(b) Which place is more likely to have rain, K or A? Give one reason for your answer.

Place _____ is more likely to have rain because _____

(3)

(c) Which place is more likely to have strong winds, S or T? Give one reason for your answer.

Place _____ is more likely to have strong winds because _____

(3)

4. A student went on the Internet to check the temperature at four different places. The students marked these places on a map as in figure 6. Use figure 6 to answer the following questions.

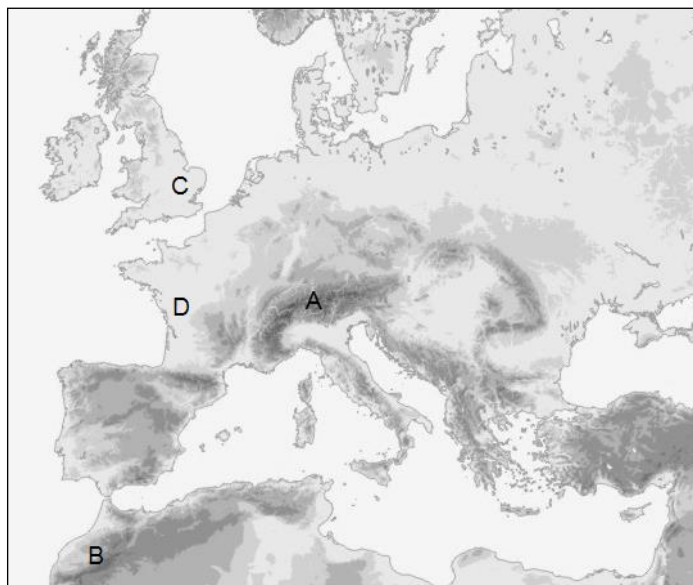


Figure 6

(a) Places C and D are both found at sea-level (0 metres). Which place would you expect to have the highest temperature? Give one reason for your answer.

Place _____ because _____

(3)

(b) Places D and A are found at the same latitude. Place D is found at sea-level but place A is on the Alps mountains. Which place would you expect to have the lowest temperature? Give one reason for your answer.

Place _____ because _____

(3)

(c) Places A and B are both found in mountainous areas. Place A is found at 2000 metres above sea-level and place B is found at 1000 metres above sea-level. Which place would you expect to have the highest temperature? Give one reason for your answer.

Place _____ because _____

(3)

(d) Ocean currents influence the temperature of coastal areas. Briefly explain how.

(3)

5. (a) Write the following terms next to the correct definition:

rural to urban migration
natural population increase

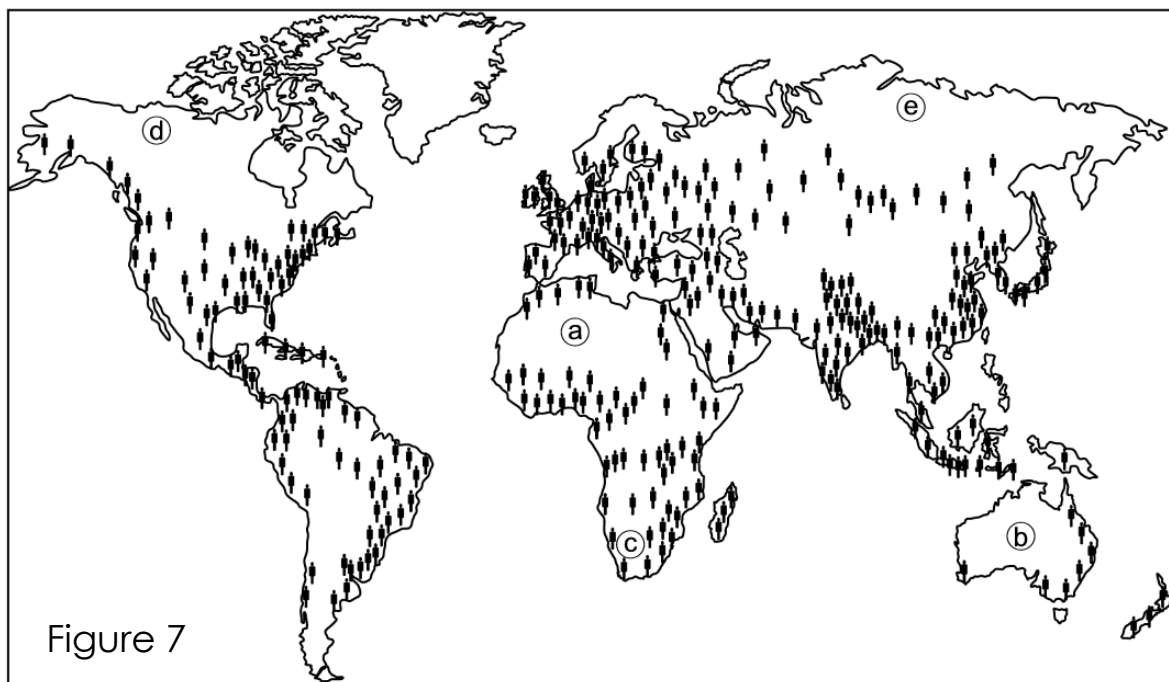
death rate
international migration

birth rate

The number of babies born for every 1000 persons of a country's population.	
The number of deaths for every 1000 persons of a country's population.	
The difference between the birth rate and the death rate.	
The movement of people from one country to another country.	
The movement of people from villages to cities.	

(5)

5. Study figure 7 showing the population distribution in the world and answer the questions that follow.



(a) Why is the population so sparse at **a** and **b**?

(2)

(b) Why is there a low population density at **d** and **e**?

(2)

(c) How does the Amazon Forest in Brazil affect the population density in that country?

(2)

(d) Write two reasons for the high population density in Western Europe.

(2)

(e) In Table 1 write the name of any one country in the European Union and another one from the rest of the world with a high population density. (2)

(f) In Table 1 write the name of any one country in the European Union and another one from the rest of the world with a low population density (2)

	An example from the European Union	An example from the rest of the world
A country with a low population density		
A country with a high population density		

(g) On the map of the world (figure 9 on page 9) label all the countries you mentioned in questions (e) and (f) above. (4)

6. (a) The photos in Figure 8 are all related to the migration of Mexicans to the USA. With the help of the photos in figure 8 list **four** push factors that cause Mexicans to emigrate from their country.

1. _____
 2. _____
 3. _____
 4. _____
- (4)

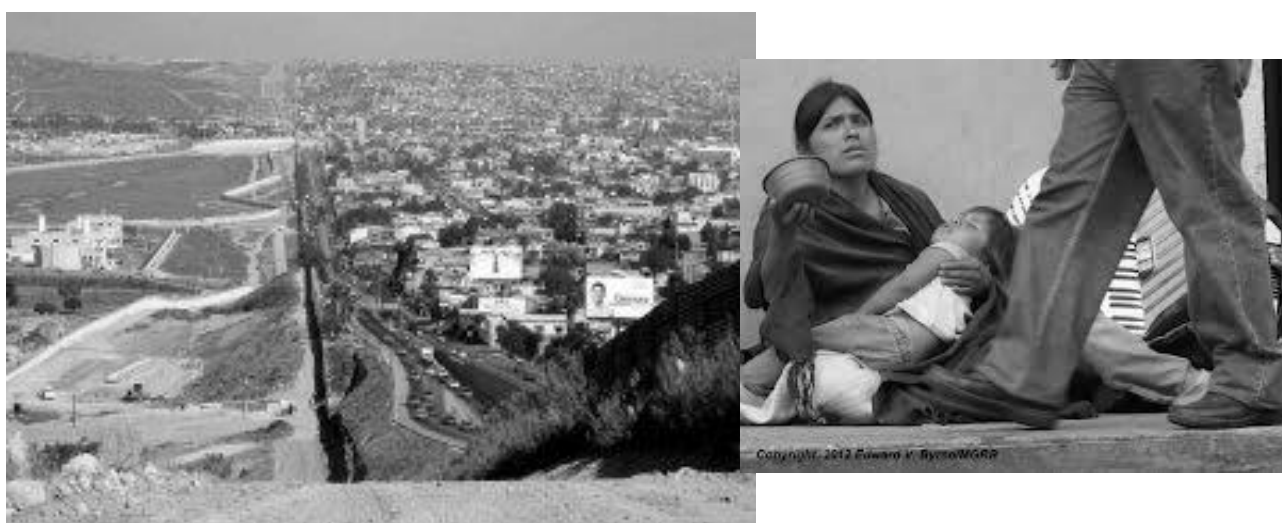


Figure 8

(b) List **four** pull factors that attract Mexican people to the USA.

1. _____
2. _____
3. _____
4. _____

(4)

(c) Describe the jobs and working conditions that Mexican immigrants do in the USA.

(4)

(d) On figure 9 on page 9 mark and label Mexico and the USA.

(2)



Figure 9: Map of the world

7. Study carefully the OS map in figure 10 on page 10.

(a) Underline the correct answer:

(i) Figure 10 shows two villages situated (on the coast, inland, on a mountain).

(ii) The two largest villages are (Norton, Colwell, Yarmouth) and (Cliff End, Totland, Sconce).

(iii) People travelling from Yarmouth to Totland can drive along road (A3054, road 33, Norton Green).

(iv) Grid square 2557 is (unbuilt, built-up, partly built-up).

(v) Along the coast between Sconce Point and Warden Point there are many (beaches, cliffs, woods).

(5)

(b) Clayton and Kurt are visiting Totland. In the table below write **two** types of accommodation where they can stay during their visit and the grid reference in which the accommodation is found.

Type of accomodation	Six-figure grid reference

(4)

(c) During their stay, Clayton and Kurt would like to visit some historical places. In the table below write two historical places they can visit and the grid square in which these places are found.

Historical place	Grid Square

(4)

(d) Christian works as a gardener in a wood where both deciduous and coniferous trees grow. On the OS map, colour in green one of the woods where Christian works. (1)

(e) Liam lives in Yarmouth but teaches in a school in Totland. What means of transport can he use to travel from home to his job? Give one reason for your answer.

Means of transport: _____

Reason: _____ (3)

(f) During the weekend Andrew likes to take a trip with his boat from Yarmouth to Totland. Mark in red the route he can take, marking with a cross the place where he can start and end his trip. (2)

(g) Calculate the distance along the road A3054 from the roundabout in Totland at 227563 to the roundabout in Yarmouth at 254586. First write the length on the map in cm and then use the scale of 1 cm: 250 m to calculate the actual distance.

Length on map in centimetres: _____ (1)

Actual distance in metres: _____ (3)

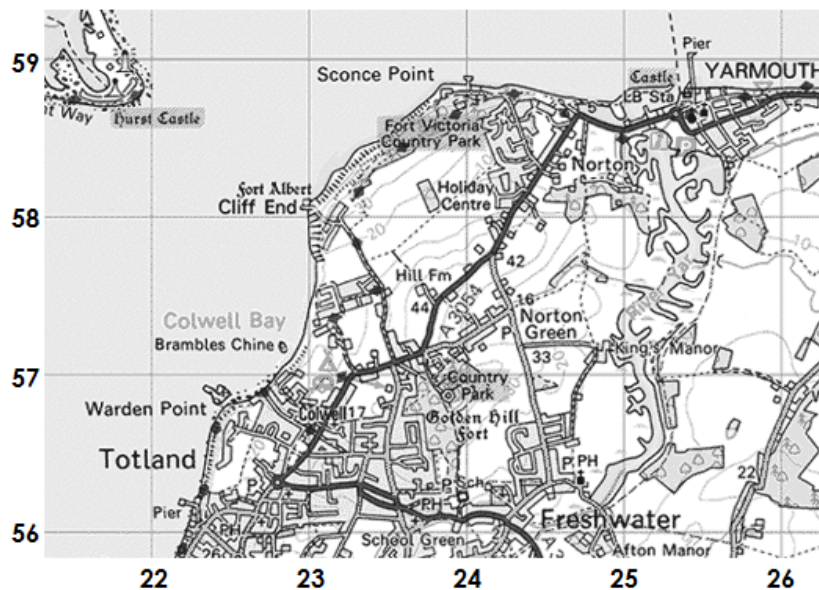


Figure 10