

WARNING

You must return this paper with your answer book. Otherwise marks will be lost.

Write your Examination Number here:



**Coimisiún na Scrúduithe Stáit
State Examinations Commission**

JUNIOR CERTIFICATE EXAMINATION, 2013

GEOGRAPHY – HIGHER LEVEL

SECTION 1 – FOLDER (60 marks)

FRIDAY, 7 JUNE – MORNING, 9.30 - 11.30

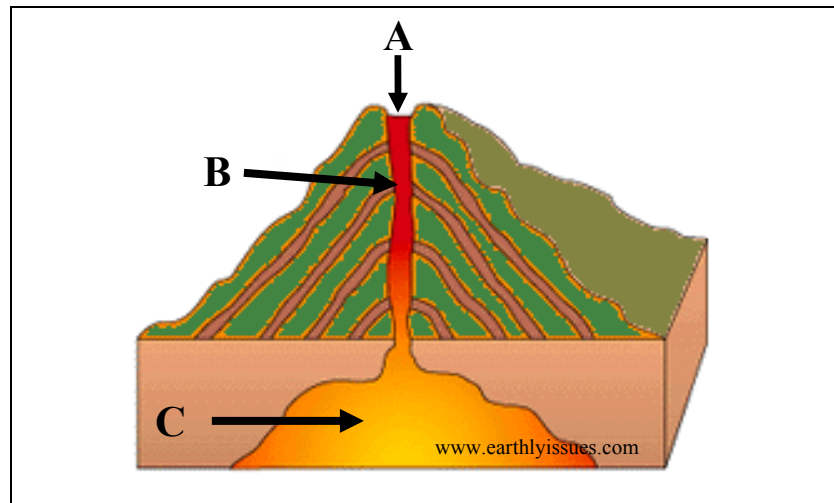
Folder Marking Grid					
	Questions		Mark	Examiner	Advising Examiner
		@	3		
		@	2		
		@	1		
		@	0		
Total					

NOTE: SECTION 2 OF THIS PAPER IS SUPPLIED SEPARATELY

SECTION 1 (60 marks)

Answer **ALL** questions.
You have a choice within three questions.
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1. VOLCANOES



Name the features of the volcano labelled **A**, **B** and **C**.

A _____

B _____

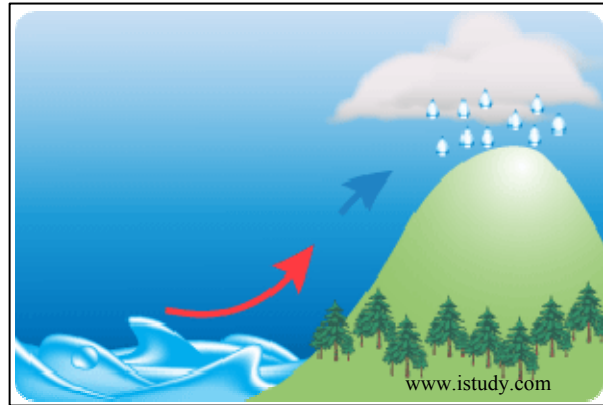
C _____

2. RIVERS

Complete the following sentences.

- (i) The place where a river begins is called its _____.
- (ii) A stream that joins the main river is called a _____.
- (iii) The rich soil deposited by a river is called _____.

3. RAINFALL



The type of rainfall shown in the diagram above is:

Cyclonic or frontal rainfall

☐

Convectional rainfall

☐

Relief rainfall

☐

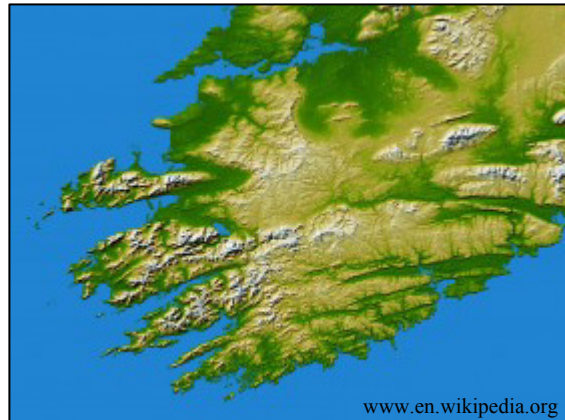
Tick (✓) the correct box.

4. WIND

Circle the correct answer in each of the following statements.

- (i) Cold air is considered to be **heavier** / **lighter** than warm air.
- (ii) Winds that blow from higher latitudes towards the equator are **warm** / **cold**.
- (iii) The wind that blows most frequently in an area is known as the **prevailing wind** / **easterly wind**.

5. FOLD MOUNTAINS



Circle the correct answer in each of the following statements.

- (i) Fold mountains are formed when two plates *separate* / *collide*.
- (ii) The mountains of Munster formed during the *Alpine foldings* / *Armorican foldings*.
- (iii) An example of fold mountains in South America are the *Andes* / *Himalayas*.

6. WEATHER STATISTICS

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temperature °C	5.8	6.6	7.9	6.7	10.5	13.0	13.9	15.4	11.8	8.0	5.5	2.9
Precipitation mm	97.4	42.4	15.4	75.4	55.1	175.1	122.1	129.1	62.0	90.9	68.3	25.4

www.met.ie

Examine the table above showing the mean monthly temperature and precipitation levels in Mullingar in 2012.

Circle the correct answer in each of the following statements.

- (i) The lowest precipitation level recorded was *15.4 mm* / *25.4 mm*.
- (ii) The lowest temperature recorded was *5.5°C* / *2.9°C*.
- (iii) The mean temperature for June, July and August was *42.3°C* / *14.1°C*.

ANSWER EITHER 7A OR 7B

7A. ENERGY



Examine the map above and answer the following questions.

- (i) Riyadh is the capital of country **X**. Name country **X**. _____
- (ii) Name the source of energy most associated with this country. _____
- (iii) Is the energy source most associated with this country, renewable or non-renewable?

OR

7B. WEATHER

Complete the sentences by using the correct term from the list below.

Isotherms	Isobars	Isohyets	Isohels
-----------	---------	----------	---------

- (i) Lines on a map joining places of equal pressure are called _____.
- (ii) Lines on a map joining places of equal temperature are called _____.
- (iii) Lines on a map joining places of equal sunshine are called _____.

ANSWER EITHER 8A OR 8B**8A. COASTS**

In the boxes provided, match each of the letters in **Column X** with the number of its pair in **Column Y**. One match has been made for you.

Column X		Column Y		X	Y
A	Swash	1	Transport of sand along the shore.	A	2
B	Groynes	2	The movement of water up a beach after a wave breaks.	B	
C	Tombolo	3	Low walls built out into the sea to stop the movement of sand.	C	
D	Longshore Drift	4	A feature that connects an island to the mainland due to coastal deposition.	D	

OR

8B. GLACIATION

In the boxes provided, match each of the letters in **Column X** with the number of its pair in **Column Y**. One match has been made for you.

Column X		Column Y		X	Y
A	Fiord	1	A lake in a corrie or cirque.	A	
B	Abrasion	2	Large boulders deposited by glaciers.	B	
C	Tarn	3	A process of glacial erosion.	C	1
D	Erratics	4	Killary Harbour is an example of one.	D	

ANSWER EITHER 9A OR 9B

9A. INDUSTRIAL LOCATION

Indicate the change that has taken place in the location of the British iron and steel industry over time:

From coasts to forested areas

☐

From coalfields to coasts

☐

From coasts to coalfields

☐

Tick (✓) the correct box.

OR

9B. SETTLEMENT PATTERNS



Name the settlement pattern shown above by ticking (✓) the correct box.

Dispersed

☐

Random

☐

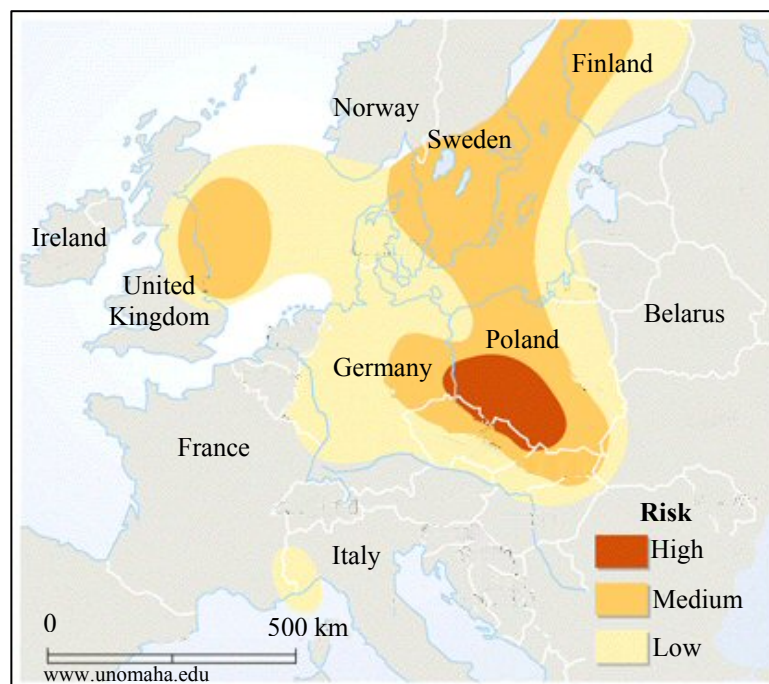
Nucleated

☐

Linear

☐

10. ACID RAIN



Examine the map above showing areas which are at risk of acid rain and circle the correct option for each of the following statements.

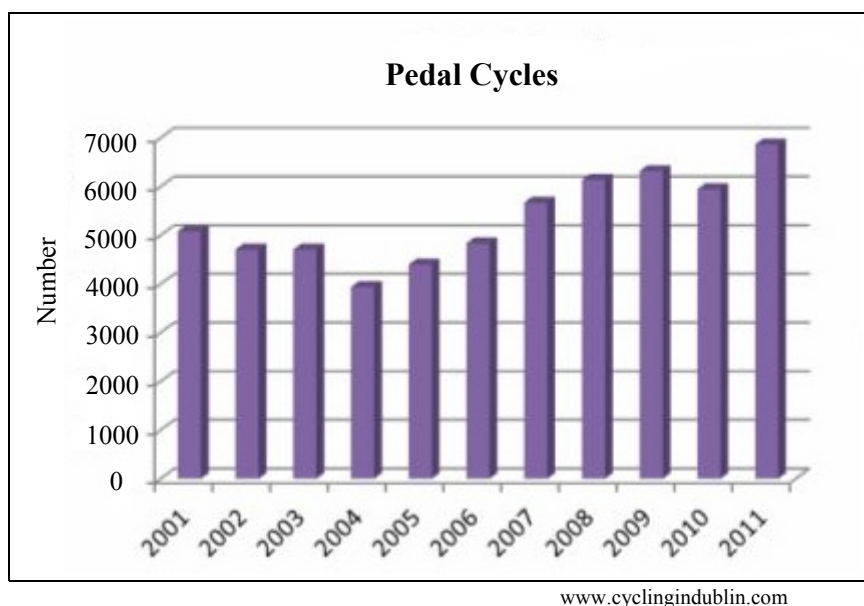
- (i) The United Kingdom is in an area at high risk of acid rain. *True / False*
- (ii) There is no risk of acid rain in Poland. *True / False*
- (iii) Sulphur dioxide is one of the causes of acid rain. *True / False*

11. AID

Circle the correct option for each of the following statements.

- (i) Bilateral aid is given by charitable organisations. *True / False*
- (ii) Emergency aid is given in times of crisis, e.g. natural disasters. *True / False*
- (iii) Development aid is short-term aid. *True / False*

12. TRANSPORT IN DUBLIN



Study the graph above showing the number of pedal cycles passing between the Royal and Grand Canals in Dublin from 2001 to 2011 and answer the following questions.

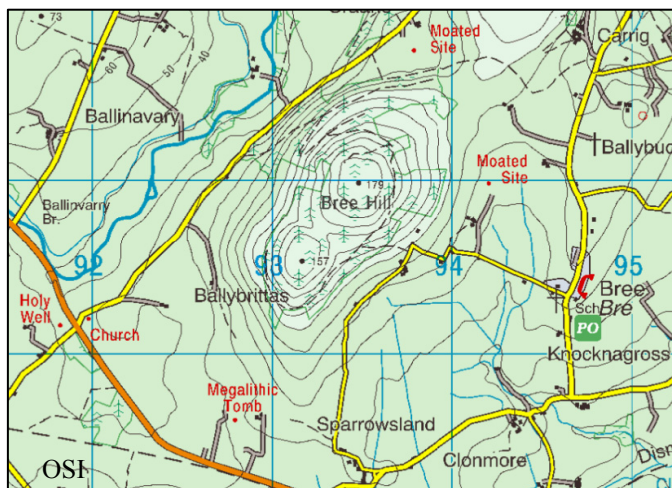
- (i) In what year did the lowest number of pedal cycles pass? _____
- (ii) How many pedal cycles passed in 2008? _____
- (iii) What was the increase in the number of pedal cycles passing between 2001 and 2008?

13. THE DEVELOPING WORLD

Circle the correct option for each of the following statements.

- (i) The standard of living is high in the developing world. **True / False**
- (ii) Infant mortality rate is high in the developing world. **True / False**
- (iii) Life expectancy is high in the developing world. **True / False**

14. NATURAL VEGETATION



Examine the Ordnance Survey extract shown above and Ordnance Survey legend that accompanies this paper and circle the correct answer in each of the following statements.

- (i) The trees on Bree Hill are *natural woodland / coniferous plantation*.
- (ii) These trees are better suited to *upland / lowland* regions.
- (iii) These trees adapt to where they grow by having *long / short* roots.

15. REGIONAL DIFFERENCES

Indicate which **three** statements below are correct by ticking (✓) the correct box.

- 1. The West of Ireland has a higher density of population than the East.
- 2. People migrate from the West of Ireland to Dublin.
- 3. Tertiary activities are well developed in Dublin.
- 4. Farms in the West of Ireland are generally smaller than farms in the South and East of Ireland.
- 5. Dublin City has a lower population than Galway City.

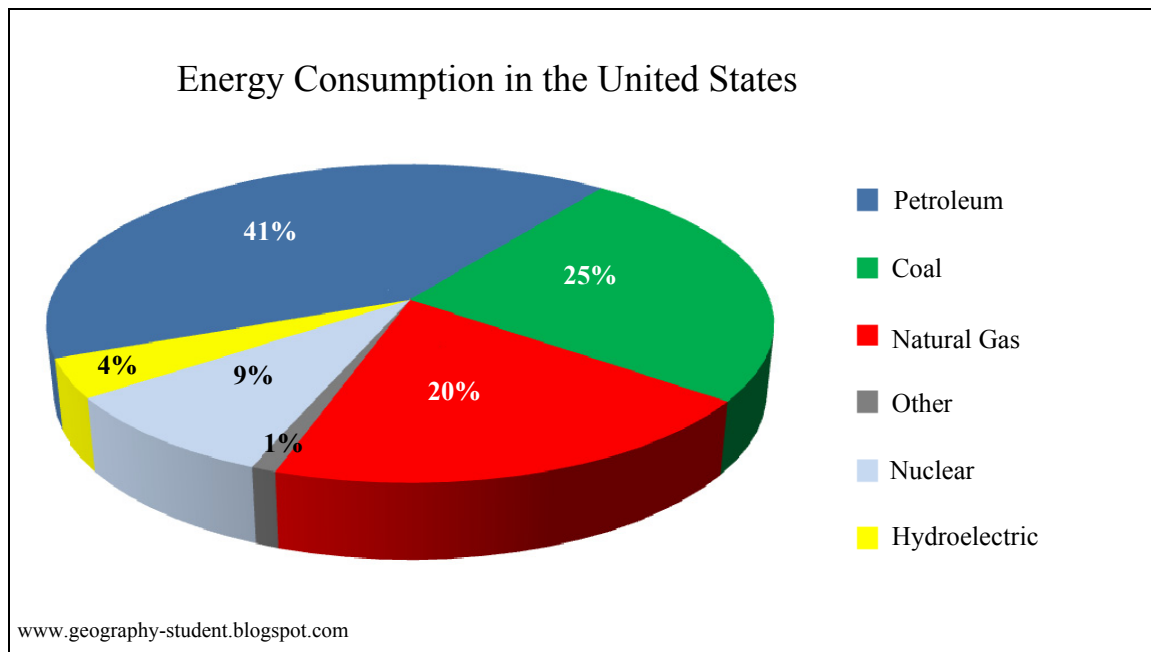
1, 2, 3 ☐

1, 3, 5 ☐

2, 3, 4 ☐

2, 4, 5 ☐

16. ENERGY CONSUMPTION



Examine the pie chart above showing energy consumption in the United States. Indicate which **three** statements below are correct by ticking (✓) the correct box.

1. Coal accounts for more than one third of energy consumption.
2. Petroleum accounts for the largest percentage of energy consumption.
3. Natural gas accounts for the lowest percentage of energy consumption.
4. The percentage of natural gas and nuclear consumption combined is greater than coal.
5. Petroleum and natural gas combined account for over 60% of all energy consumption.

1, 2, 3 ☐

2, 3, 4 ☐

2, 3, 5 ☐

2, 4, 5 ☐

17. ORDNANCE SURVEY MAP

Examine the Ordnance Survey map supplied with this paper.

If you were travelling in a straight line from the Parking at S 964 367 to the railway station in Enniscorthy at S 974 402, in which direction would you be travelling?

Direction _____

18. ORDNANCE SURVEY MAP

Examine the Ordnance Survey map supplied with this paper.

In the boxes provided, match each of the letters in **Column X** with the number of its pair in **Column Y**. One match has been made for you.

Column X	
A	S 955 386
B	T 009 381
C	S 953 374
D	T 001 313

Column Y	
1	Garda Station
2	Moated Site
3	Golf Course
4	Spot Height 74

X	Y
A	3
B	
C	
D	

19. ORDNANCE SURVEY MAP

Examine the Ordnance Survey map supplied with this paper.

The following paragraph describes a settlement on the map.

Read the paragraph and answer the following question.

This settlement is located in the south-west section of the map. It has a post office, school and a church. It is built at the junction of two third class roads.

What is the name of this settlement? _____

20. AERIAL PHOTOGRAPH

Examine the aerial photograph supplied with this paper.

The river feature in the centre middleground is a:

Delta ☐

Meander ☐

V-Shaped valley ☐

Tick (✓) the correct box.



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GEOGRAPHY – HIGHER LEVEL

SECTION 2 (90 marks)

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SECTION 1 of this paper is in a separate folder, where spaces are provided for your answers.

PLEASE REMEMBER TO RETURN YOUR COMPLETED **SECTION 1 FOLDER** WITH YOUR
ANSWER BOOK.

SECTION 2 (90 marks)

Answer any **THREE** questions.

All questions carry equal marks.

Question 1. NATURAL PROCESSES

A. Weathering



Name the type of weathering most associated with the formation of the landscape shown above and explain this type of weathering.

(10)

B. Mass Movement

- (i) Explain how precipitation and gradient influence mass movement.
- (ii) Name **one** type of slow mass movement and describe its effects.

(10)

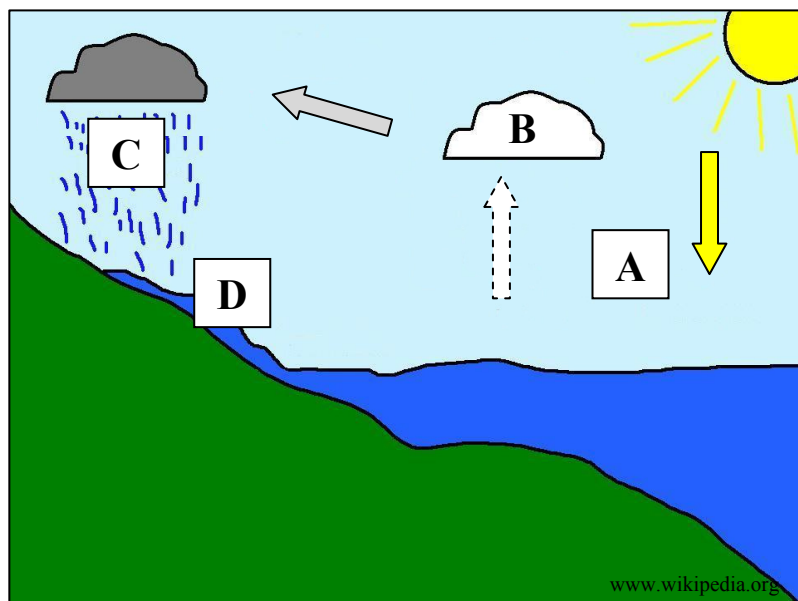
C. River Feature

Name **one** feature formed by **river deposition** and explain with the aid of a labelled diagram, how it was formed.

(10)

Question 2. RESTLESS ATMOSPHERE

A. The Water Cycle



(i) Explain the water cycle with reference to each of the stages labelled **A**, **B**, **C** and **D** in the diagram above.

(ii) Name **two** cloud types.

(10)

B. Climatic Factors

Explain how any **three** of the following factors influence climate:

- Latitude
- Prevailing winds
- Distance from seas and oceans
- Altitude
- Relief.

(12)

C. Greenhouse Effect

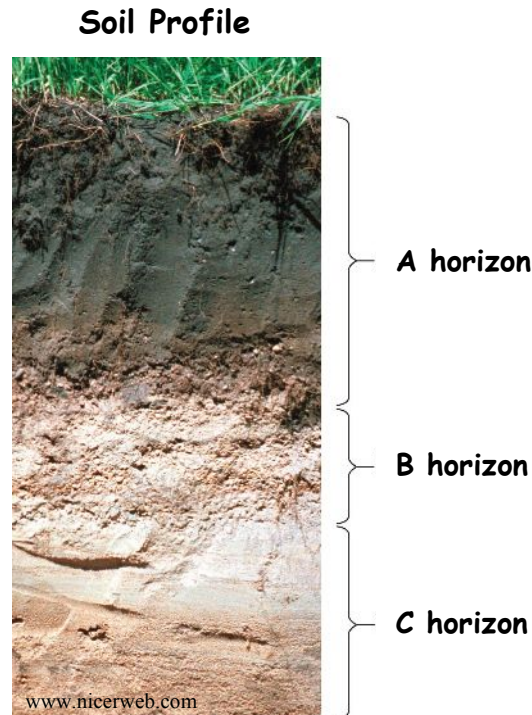
With the aid of a labelled diagram explain the greenhouse effect.

(8)

Question 3. GEOGRAPHICAL MIX

Answer **ANY THREE** of the questions **3A, 3B, 3C, 3D**.

3A. Soils



- (i) Describe and explain the formation of the soil profile shown above.
- (ii) Name **two** soil types commonly found in Ireland.

(10)

3B. Migration

- (i) Name **one** example of organised migration that you have studied.
- (ii) Describe **two** effects of this organised migration on the area to which people migrated.
- (iii) Explain **one** barrier to migration in the present day.

(10)

Question 3. GEOGRAPHICAL MIX (continued)

3C. Tourist Regions



- (i) Choose any **two** of the types of tourist regions illustrated above and name an example of each.
- (ii) Explain why tourists are attracted to **each** of your named examples.

(10)

3D. Exploitation of Peat Bogs



- (i) Describe **two** ways in which technology has aided in the exploitation of peat.
- (ii) Explain **two** reasons why the majority of Bord na Móna's commercial peat production takes place at the raised bogs in the Midlands.

(10)

Question 4. URBANISATION

A. Urbanisation in the Developing World

- (i) Name **one** city in the developing world that you have studied.
- (ii) Explain **two** problems associated with unplanned development in this city.

(10)

B. Urban Functions



Describe any **three** different functions associated with urban settlement(s) along the Rhine River Basin.

(10)

Question 4. URBANISATION (continued)

C. Urban Development



Examine the photograph above and answer the following questions.

- (i) In which of the city zones **A**, **B** or **C** would land values be highest?
- (ii) State **two** reasons why land values are highest in this zone.
- (iii) Describe **two** problems resulting from urban sprawl.

(10)

Question 5. AERIAL PHOTOGRAPH AND ORDNANCE SURVEY MAP

- A.** Examine the **AERIAL PHOTOGRAPH** supplied with this paper.

Draw a sketch map of the whole area shown on the aerial photograph.

On your sketch map, **show** and **label** each of the following features:

- A railway bridge
- A river
- **Two** connecting streets
- A castle.

(10)

- B.** A number of different economic activities are evident on the **AERIAL PHOTOGRAPH**.

- (i) Name and locate using correct terms (right background, etc.) an example of each of the following economic activities:

- Primary
- Secondary
- Tertiary.

- (ii) Choose any **one** of the examples of the economic activities named above and explain **two** reasons why it is at its present location.

(10)

- C.** Examine the **ORDNANCE SURVEY MAP** supplied with this paper.

Explain **three** reasons for the location of the industrial estate at S 977 419. For each reason include specific evidence from the **ORDNANCE SURVEY MAP** to support your answer.

(10)