

## Question 1

(a) (i) Insert the correct category of rock from the list below into the table for each rock type.

- Igneous
- Sedimentary
- Metamorphic.

Rock Type	Category
Limestone	
Marble	
Basalt	

(ii) Name a location in Ireland where each rock type named below can be found.

Rock Type	Location in Ireland
Limestone	
Marble	
Basalt	


(b) Rocks can be exploited in different ways and this exploitation can have many impacts.



(i) Name **one** location that you have studied where rocks are exploited **and** state how rocks are being exploited at this location.


(ii) Explain **one** economic **and** **one** environmental impact of exploiting rocks.

Economic Impact:
Environmental Impact:

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### Question 3

#### Question 2

- (a) Examine the satellite photograph below showing part of Dungarvan Harbour and answer each of the following questions.



- (i) Which of the following is the name for the part of a river that is tidal, labelled **A** above? Tick (✓) the correct box.

Source

Estuary

Tributary

- (ii) What is the name for a bend or turn in a river, labelled **B** above?

- (iii) The feature labelled **C** on the satellite photograph above is known as a sand spit. What is the name of the process of coastal transportation that led to its formation?

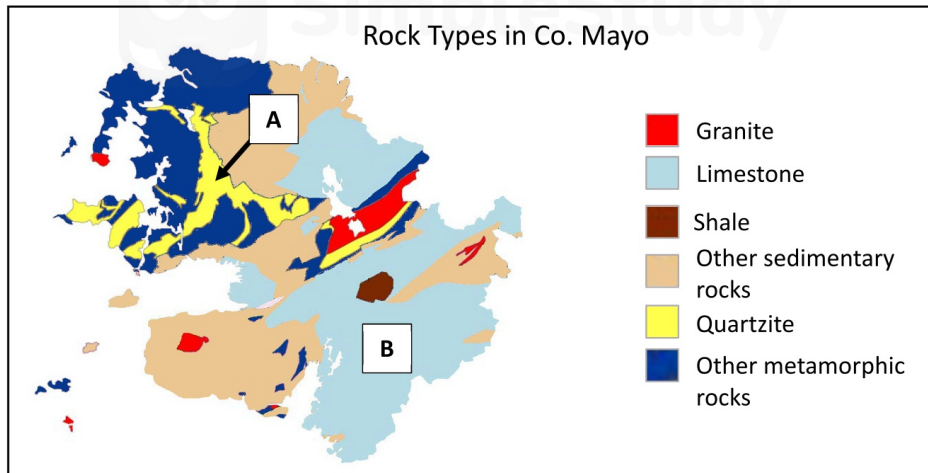
- (b) (i) Name **one** river that you have studied.

- (ii) List **two** features that are formed by the process of river deposition.



### Question 4

- (a) Examine the map of Co. Mayo below showing the rock types found in the county and answer each of the following questions.



- (i) Which of the following rock types can be found at the location labelled **A**?  
Tick (✓) the correct box.

Granite

Limestone

Quartzite

- (ii) Name the sedimentary rock found in the area marked **B**.

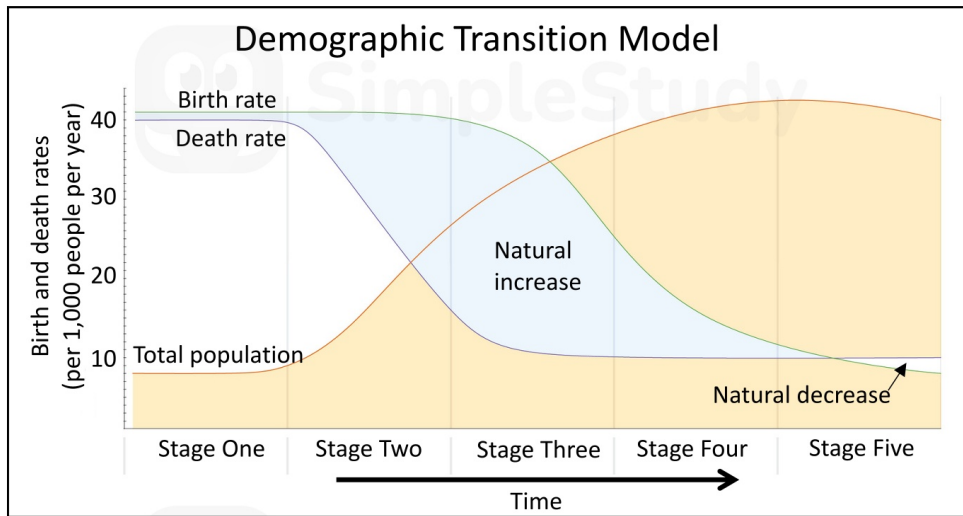
- (iii) Name **one** type of igneous rock shown on the map above.





## Question 6

- (a) Examine the demographic transition model below and answer each of the following questions by ticking (✓) the correct box for each.



- (i) The birth rate is increasing during stage 3. True  False
- (ii) The death rate is highest in stage 4. True  False
- (iii) Total population growth in stage 4 is slower than in stage 2. True  False
- (iv) The death rate being lower than the birth rate is the only reason a population increases. True  False

- (b) Study the table below which shows data relating to birth and death rates, education and income for Ireland, Sudan and Sierra Leone and answer each of the following questions.

	Birth and death rates 2016		Mean years of schooling		Gross National Income per capita (US\$)	
	Birth rate (per 1,000)	Death rate (per 1,000)	Female	Male	Female	Male
<b>Ireland</b>	13.4	6.4	13	12	44,921	66,583
<b>Sudan</b>	32.9	7.3	3	4	1,759	6,168
<b>Sierra Leone</b>	34.5	12.3	3	4	1,238	1,525

- (i) Which country from the table on page 12 has the highest mean years of schooling for males? Tick (✓) the correct box.  
 Ireland       Sudan       Sierra Leone
- (ii) What was the Gross National Income per capita (in US\$) for females in Sierra Leone?



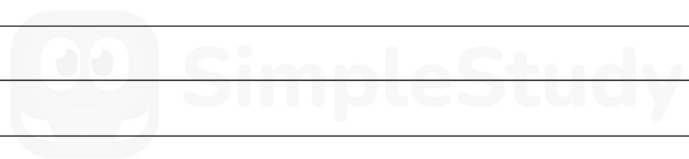




- (c) Glaciers are melting at a rapid rate around the world with studies suggesting that in some mountain ranges glaciers could virtually disappear before the end of the century.



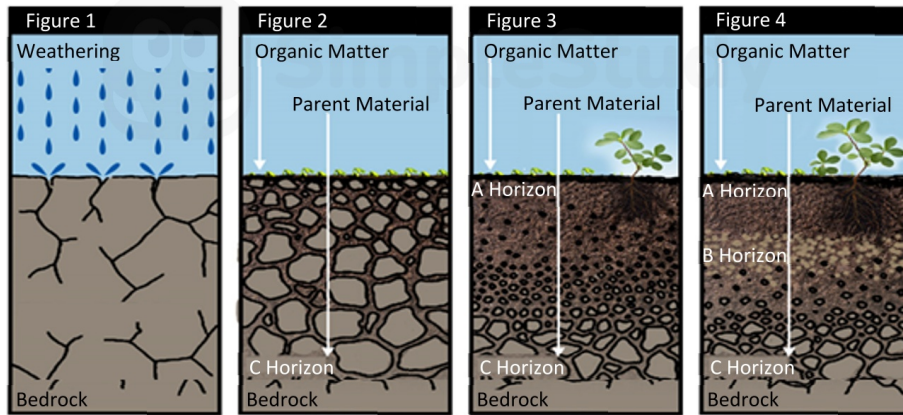
Discuss **one** reason why glaciers are melting at a worrying speed.

## Question 8

### Question 6

(a) Examine Figures 1 to 4 below which show the formation of a developed soil profile.



(i) Match each of the Figures 1 to 4 above with the stage of formation in the table below that best matches it. One has been completed for you.

Stage of Formation	Figure
Horizons begin to form	<b>3</b>
Bedrock begins to break down	
Defined horizons in a developed soil	
Organic matter starts to decay	

(ii) Name a type of weathering that can have an influence on soil formation.

(b) Explain how **one** of the following factors influences soil formation.

- Climate
- Vegetation
- Parent material


(c) Read the article below and answer each of the following questions.

### The world needs topsoil to grow 95% of its food

According to the United Nations, farms worldwide are experiencing a loss in soil fertility, with a third of the world's soils moderately or highly degraded.

Intensive agriculture, industrial activity, deforestation and urbanisation are causing soil erosion.

The natural processes that create fertile topsoil can take centuries and this will create issues unless there are changes to farming practices and ways are found to preserve soil.



(i) How much of the world's soil is moderately or highly degraded?

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(ii) List **two** causes of soil erosion mentioned in the article.

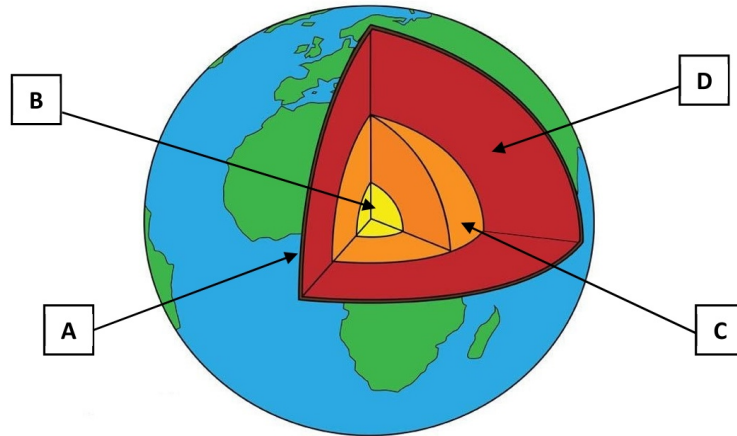
1:
2:

(iii) Describe **one** impact of soil erosion.


### Question 9

(a) Examine the diagram showing the different layers of the earth.

Match each of the letters **A**, **B**, **C** and **D** with the term that best matches it in the table below.



Term	Letter
Inner core	
Crust	
Outer core	
Mantle	

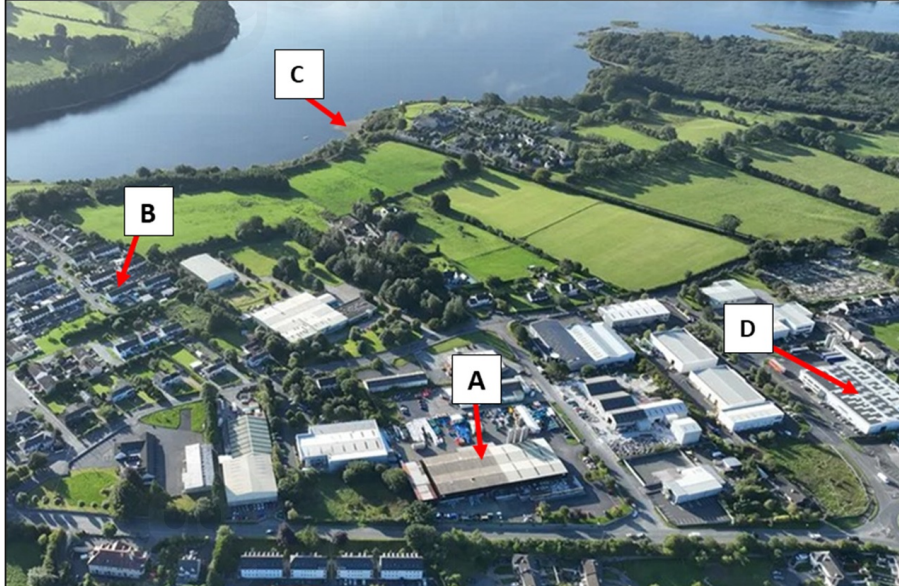


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## Question 11

### Question 8

- (a) Examine the aerial photograph of Blessington below and answer each of the following questions.



- (i) Match each of the locations on the photograph labelled **A**, **B**, **C** and **D** with the evidence of a function that best matches it in the table below.

Evidence of Function	(i) Location on Photograph
Supermarket	<b>D</b>
Beach	
Factory	
House	

- (ii) Match each of the functions in the box below with the evidence listed in the table.

Commercial	Residential	<del>Recreational</del>	Industrial
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Evidence of Function	(ii) Function
Supermarket	
Beach	<b>Recreational</b>
Factory	
House	

- (iii) In which part of the photograph on the previous page can the lake be seen?  
Tick (✓) the correct box.

Background

Middleground

Foreground

- (iv) Churches and graveyards are often found near the centre of a town. What function are these an example of?

Question 12

(b) Examine the Ordnance Survey map and legend accompanying this paper and answer each of the following questions.

(i) Blessington Industrial Estate is located in which grid square of the map accompanying this paper.

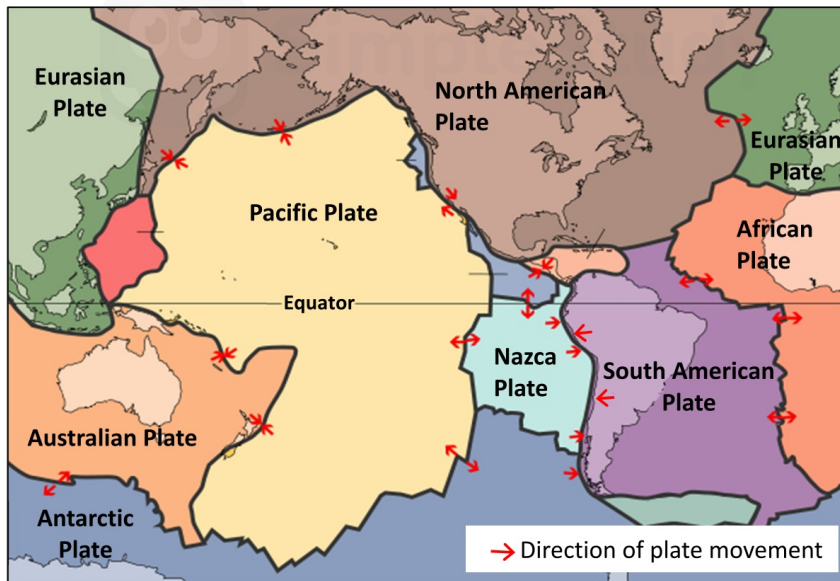
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(ii) Using evidence from the map, explain **one** reason why Blessington Industrial Estate is situated at this location.




## Question 14

- (a) Study the map of the world below showing major plates and plate boundaries and answer each of the following questions.



- (i) On which of the following plates is Ireland located? Tick (✓) the correct box.

- Nazca plate
- Pacific plate
- Eurasian plate
- African plate

- (ii) What is the name for the outer layer of the earth that is made up of plates?

- (iii) Name **two** plates that are separating from each other.

1.
2.

- (iv) Name **two** landforms that are created when plates separate.

1.
2.

### Question 15

- (b) (i) Name an example of a range of fold mountains located outside of Ireland that you have studied.

- (ii) Draw a labelled diagram in the space below to show the formation of fold mountains at a colliding plate boundary. Label each of the following on your diagram:

- Two colliding plates
- Convection currents
- Mantle
- Fold mountains.





