

FORM 4 **GEOGRAPHY (OPTION)** **TIME: 1h 30min**

For Examiner's use only.

Question No.	1	2	3	4	5	6	7	8	9	Written Exam	Fieldwork Report	Total
Maximum Mark	12	12	8	8	12	9	9	8	12	90	10	100
Score												

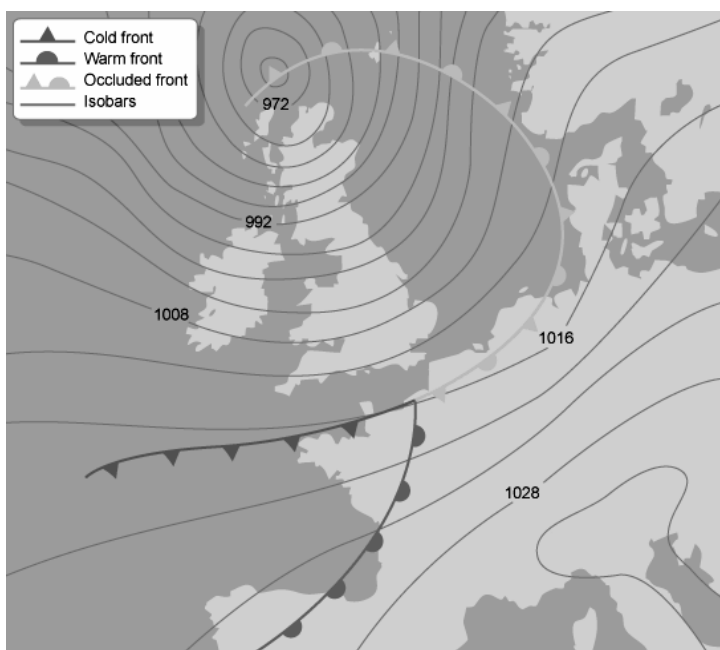
The total mark for this paper is 90. Answer all questions in the space provided. Write your answers neatly and in good English.

Name: _____

Class: _____

Weather and climate

Question 1



Fronts occur where two different air masses meet. Explain how these three fronts are **formed** and what is **happening** at each of these three fronts.

Warm Fronts.....
.....
.....
.....

Cold Fronts.....

Occluded Fronts.....

Mark in their right position on the given picture the following three terms by writing the corresponding letter.

A	Warm Sector	B	Isobars	C	Thunderstorm
---	-------------	---	---------	---	--------------

12 marks

Landforms and Processes

Question 2

Answer the following questions on 'Plate Tectonics'.

a. Name the different types of plate boundaries:

- i. _____
- ii. _____
- iii. _____
- iv. _____

b. What happens at subduction zones?

c. Why do volcanoes develop close to subduction zones?

d. How do mid-ocean ridges form?

e. Is the Atlantic Ocean getting smaller or bigger? Explain why.

f. Why are earthquakes and tremors common along the San Andreas Fault?

7 marks

g. Draw a labelled diagram to explain what is happening along one type of plate boundary.

2 marks


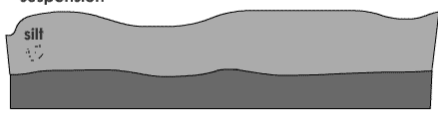
h. Imagine that as an **MP** (Member of Parliament) you form part of a committee to plan ways on how to minimise the effects of earthquakes. What would you suggest?

3 marks

Question 3

Explain the **four processes** by which a river **transports its load**.

<p>saltation</p>	<p>Saltation</p> <hr/> <hr/>
<p>traction</p>	<p>Traction</p> <hr/> <hr/>

	<p>Solution</p> <p>.....</p> <p>.....</p>
	<p>Suspension</p> <p>.....</p> <p>.....</p>

8 marks

Socio-Economic Human Systems

Question 4

Explain in a **short paragraph** the **main problems** that have resulted from the **rapid growth** of Sao Paolo and the attempts being made **to solve** these problems.



The two pictures show the CBD and the shanty town of Sao Paolo in Brazil.

.....

.....

.....

.....

.....

.....

.....

8 marks

Question 5

Fill in the details related to the three types of farming.



Type of farming	Brief Explanation	Common in MEDCs or in LEDCs	Type of tools or equipment used	What happens to the output?
Shifting Agriculture
Intensive Commercial
Subsistence farming

12 marks

Environmental Concerns

Question 6

Soil is one of the most precious natural resources on earth.
Explain **three** methods of **soil conservation** in order to avoid soil erosion.



- a. _____

- b. _____

- c. _____

9 marks

Question 7

- a. Fill in the table below to show the different **physical** and **human** causes of flooding:

Physical causes of Flooding	Human causes of flooding

b. Give **three** ways by which flooding can be **reduced**.

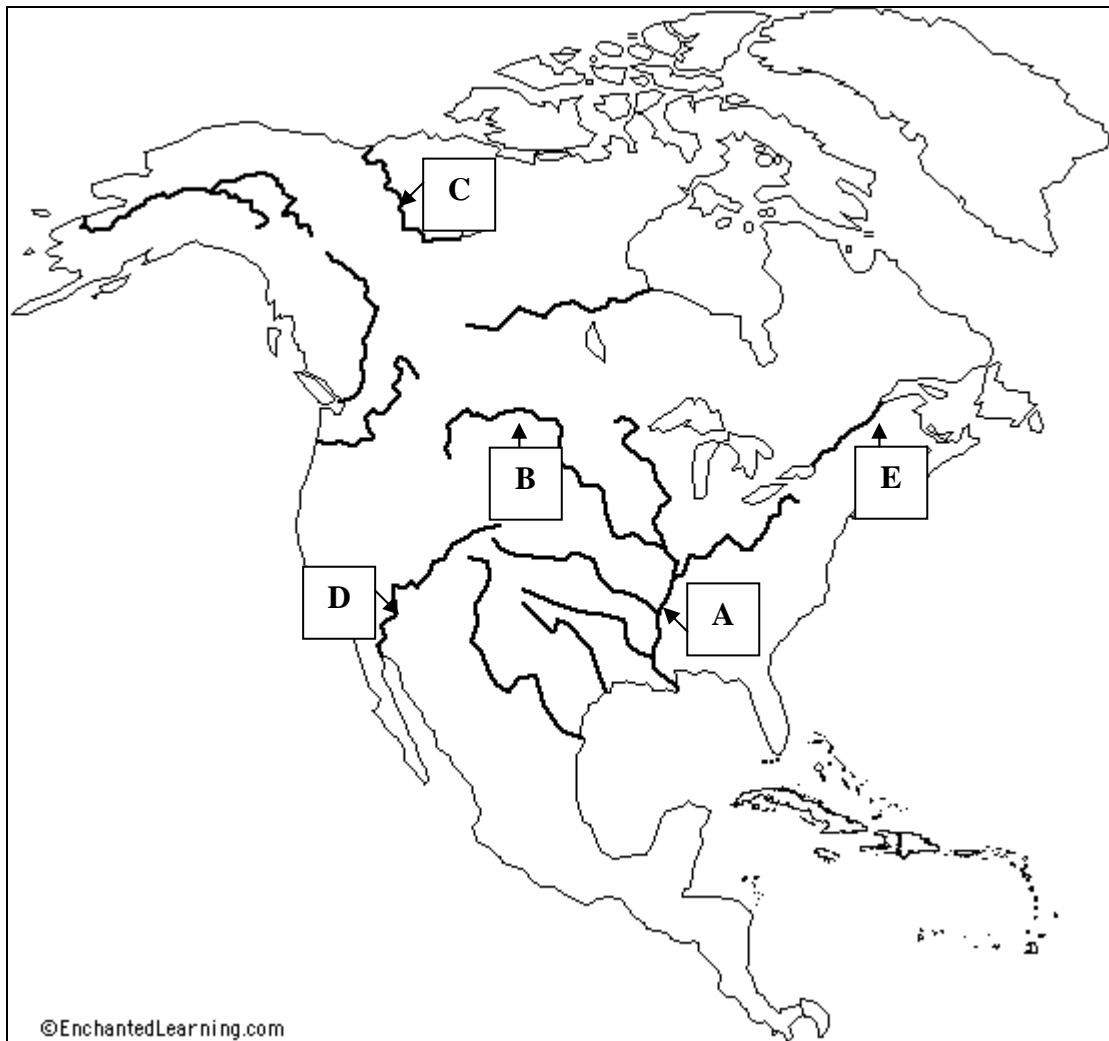
.....
-------	-------	-------

9 marks

Location and Places

Question 8

Name **four** of the five rivers of North America marked by the letters **A to E**.



A. _____

B. _____

C. _____

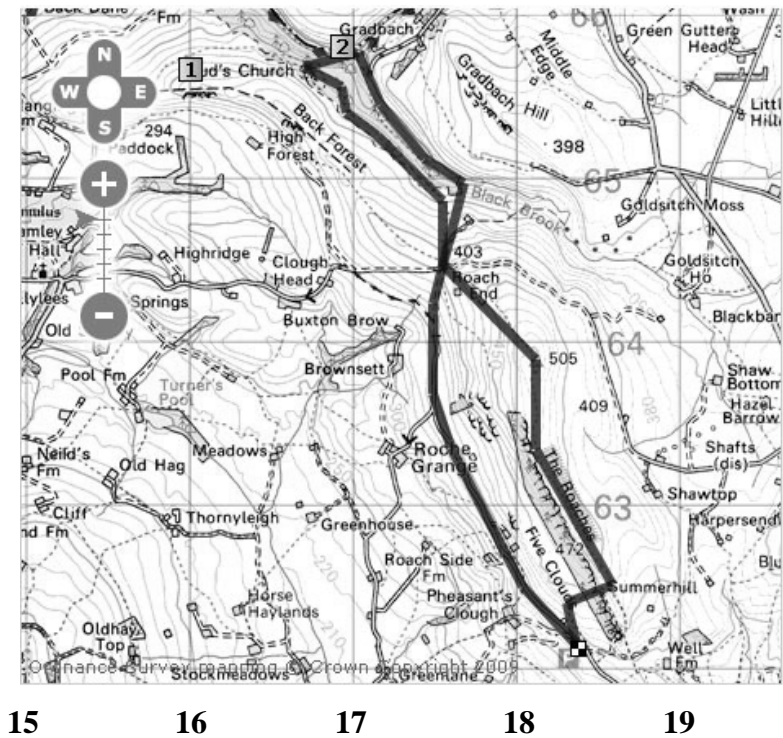
D. _____

E. _____

8 marks

Map Reading and Interpretation

Question 9



Examine the given map extract well and then work out the exercise.

- Mark the numbers of the northings on one side of the map.
- Name two primary activities practised in the given area.
.....
- Give the six figure grid references of the points marked 1 and 2.
.....
- If the scale of the map is 1:50000 what is the actual straight distance between Point 1 and Point 2?
.....cmskms
- Describe the settlement layout of the area covered by the map.
.....
.....
.....
.....
.....

f. Enlarge the grid boxes 1864; 1865; to double size from 1:50000 to 1:25000.

Draw the secondary road starting from 185660 to 190650 on this map enlargement.

12 marks

End of Paper

Page for rough work: