

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

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. The marks for individual questions are shown in brackets e.g. (4). There are 9 questions in all. The total mark for this paper is 90. The use of blank paper, pieces of string and calculators is allowed.

Examiner's use only.

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

Question 1

Examine carefully the topographical (OS) map 1:25000 given as a separate sheet and then work out the given exercise.

- In which direction do the Islands of St. Paul lie from Buġibba?

(1)
- Give one reason why many locals and tourists like to visit areas found to the north of Marfa Ridge.

(2)
- What is the difference between the coastline at Iċ-Ċumnija and that at Mellieħa Bay?

(2)
- What is the four figure grid reference of Santa Maria Estate?

(1)
- Give the six figure grid reference for Marfa Point.

(1)

f. How do the contours on the map indicate that Mistra 440790 is a valley?

g. Give one reason to explain the site of Mellieħa at GR 4279.

_____ (2)

h. In the given space, reduce to half size the grid boxes 4580 and 4680. Include the new scale and the highest point on your map reduction.

(2)

Question 2

Refer to the world map on page 3 and then name the following.

Volcanoes

a. _____

b. _____

c. _____

d. _____

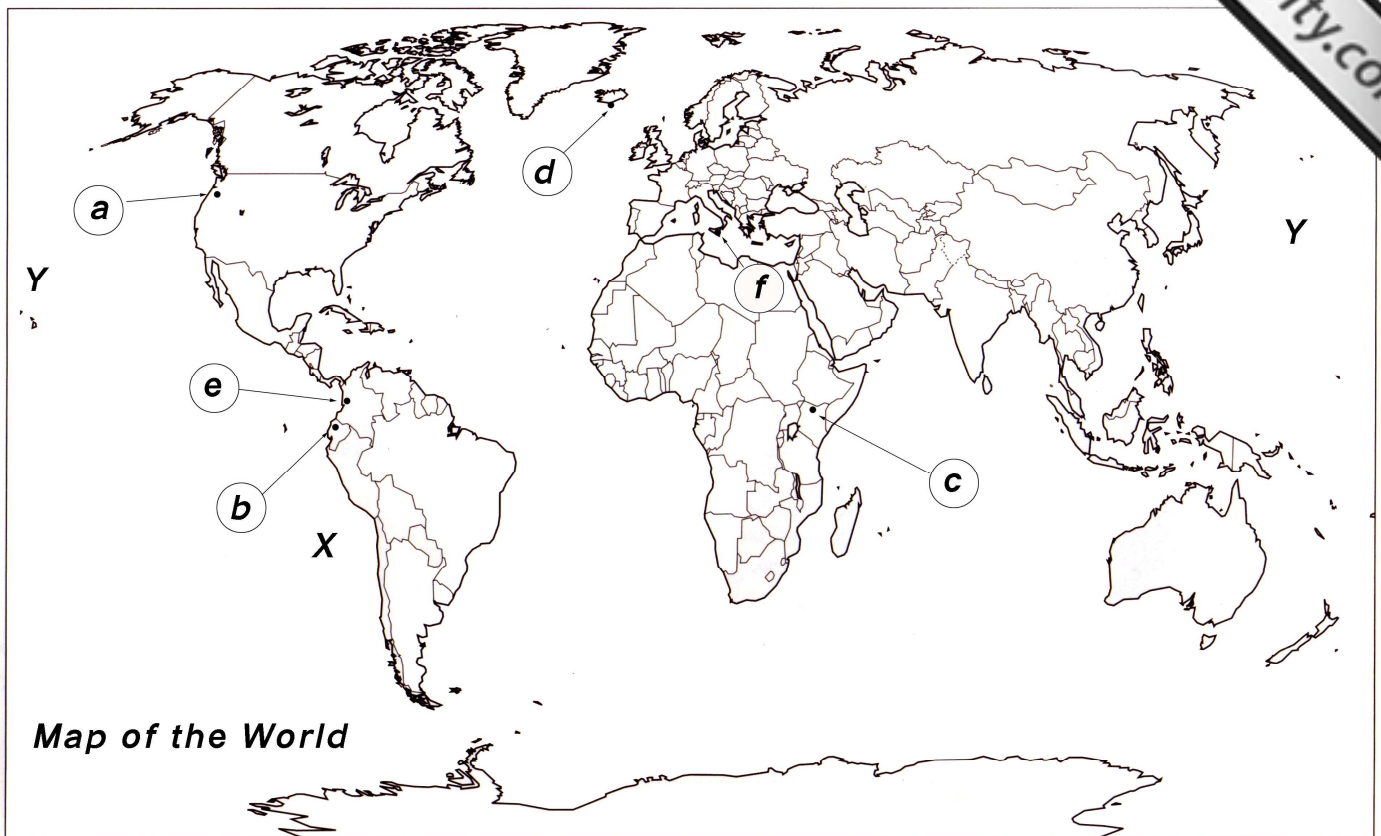
e. _____

f. _____

Tectonic Plates

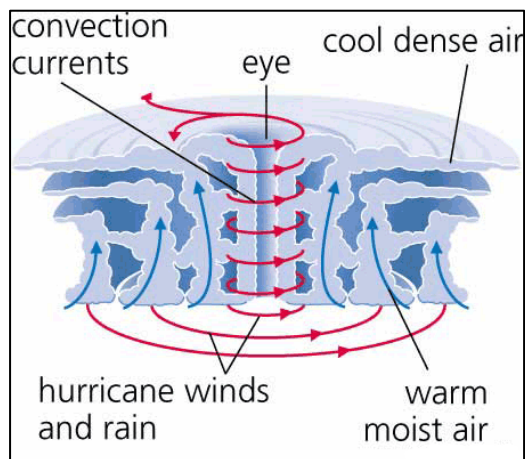
X _____

Y _____



Question 3

- a. Fill in the blanks to show the main features of hurricanes.



Hurricanes develop over warm tropical _____ and where sea temperatures exceed _____ Celsius over a vast area and where there is a considerable depth of _____ water. They appear to originate when a strong vertical movement of air draws with it water _____ from the ocean below.

As the air _____ in a spiral movement, it cools and condenses. This heat energy powers the storm and causes it to move _____.

(6)

- b. Name the two types of rain that falls on the Maltese Islands.

- c. Explain the main differences between these two types of rainfall.

(4)

Question 4

Answer the following questions on Plate Tectonics.

- a. What are the individual pieces of crust called?

- b. At what type of tectonic boundary will a folded mountain range form?

- c. What evidence indicates that the oceanic crust is much younger than the continental crust?

- d. Which of the plate boundaries does not result in any volcanic activity?

- e. How are the slowest and most destructive seismic waves called?

- f. What is the Richter Scale?

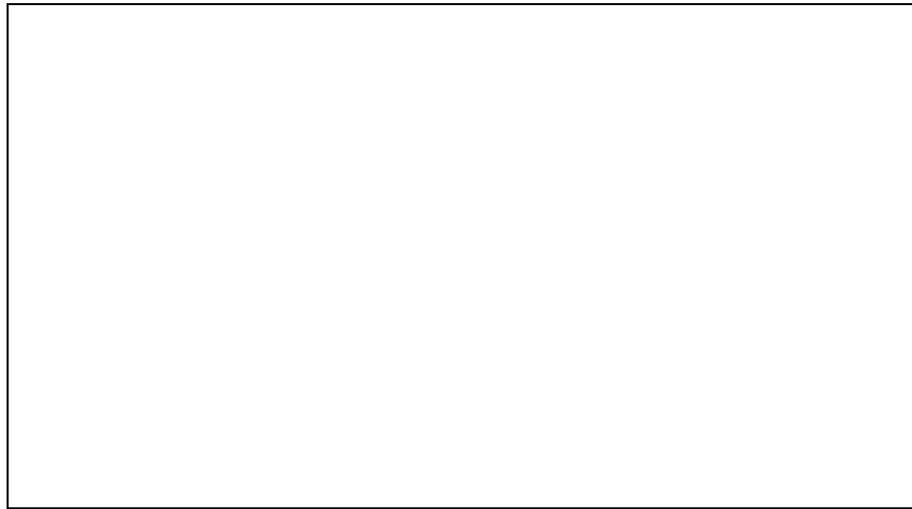
- g. What is the difference between active and dormant volcanoes?

(7)

- h. What are the advantages of living in volcanic areas in spite of the risk from an eruption?

_____ (2)

- i. Draw a labelled diagram of **one type of plate boundary**.



(3)

Question 5

Explain the following geographical terms related to erosion by rivers and the resultant features.

- a. Abrasion _____

- b. Solution _____

- c. Saltation _____

- d. Plunge pool _____

- e. Small river cliff _____

- f. Slip off slope _____

- g. Gorge _____

- h. Ox-bow lake _____

8 marks

Question 6

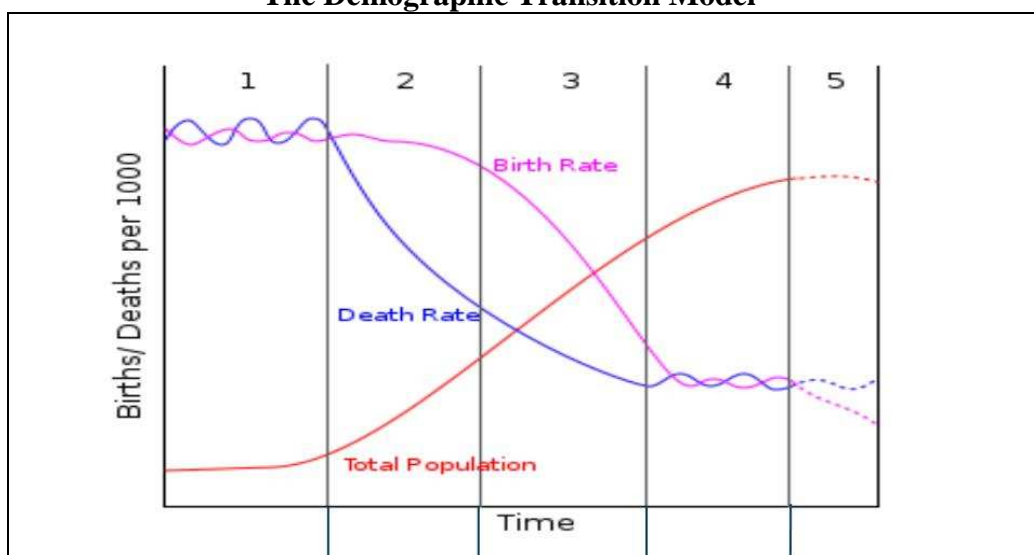
Write a paragraph on either **shifting** or **plantation** farming in Brazil.

(8)

Question 7

Examine the Demographic Transition Model below and write a sentence to explain each of the five stages of population development.

The Demographic Transition Model



Stage 1 _____

Stage 2 _____

Stage 3 _____

Stage 4 _____

Stage 5 _____

(10)

At which stage of the Demographic Transition Model would you place the tribes Amazon Basin of Brazil, and why?

(2)

Question 8

Explain why the following three farming practices can reduce soil erosion.

a. Contour ploughing

b. Controlled grazing

c. Crop Rotation

(9)

Question 9

Give and explain **three** methods to reduce flooding in Bangladesh and in other parts of the world.



Method 1 _____

Method 2 _____

Method 3 _____

(9)

End of Paper