

**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.

- a. In which direction do the Islands of St. Paul lie from Buġibba?  
Underline the right answer. (South east; North east; South; North west) (1)
- b. Give one reason why many locals and tourists like to visit areas found to the north of Marfa Ridge.  
\_\_\_\_\_  
\_\_\_\_\_ (2)
- c. What is the difference **in height** between the coastline at Iċ-Ċumnija and that at Mellicha Bay?  
\_\_\_\_\_ (2)
- d. What is the four figure grid reference of Santa Maria Estate? Underline the right answer.  
(4280; 4379; 4481; 4085) (1)
- e. Give the six figure grid reference for Marfa Point. Underline the right answer.  
(394829; 404829; 394819; 394609) (1)

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

\_\_\_\_\_

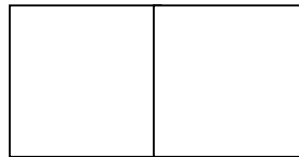
g. Give one reason to explain the site of Mellicha at GR 4279.

\_\_\_\_\_

\_\_\_\_\_ (2)

h. In the given space, reduce to half size the grid boxes 4580 and 4680. Use letter A to mark the location of St. Paul's Islands and letter B to locate Blata l-Bajda Point.

(2)



1:50,000

## Question 2

Refer to the world map on page 3 and name the following, choosing the given names.

*Surtsey; Kilimanjaro; Mt. St. Helens; Cotopaxi; Etna; Nevada del Ruiz;*

### Volcanoes

a. \_\_\_\_\_

b. \_\_\_\_\_

c. \_\_\_\_\_

d. \_\_\_\_\_

e. \_\_\_\_\_

f. \_\_\_\_\_

(6)

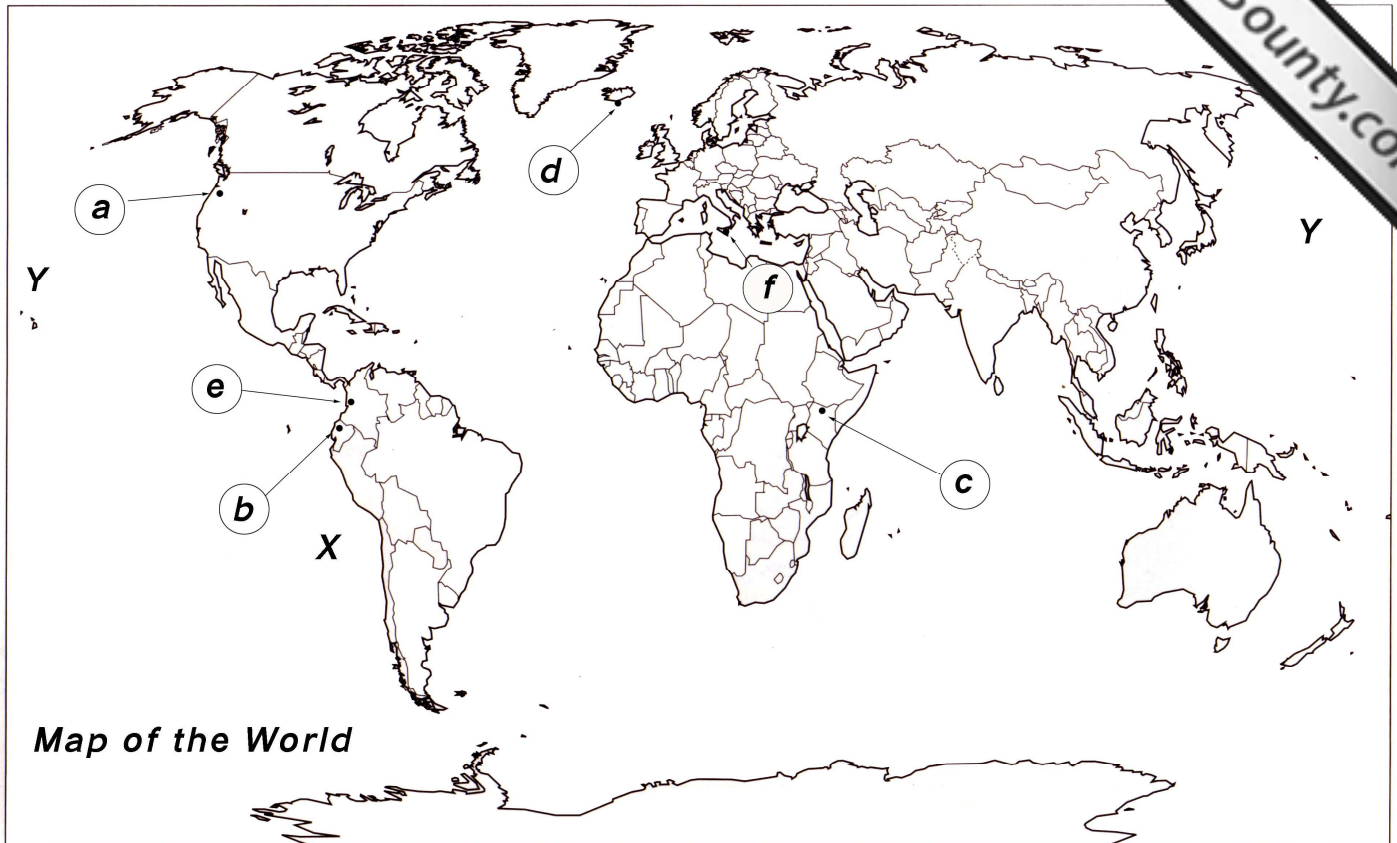
*Eurasian; Pacific; Nasca*

### Tectonic Plates

X \_\_\_\_\_

Y \_\_\_\_\_

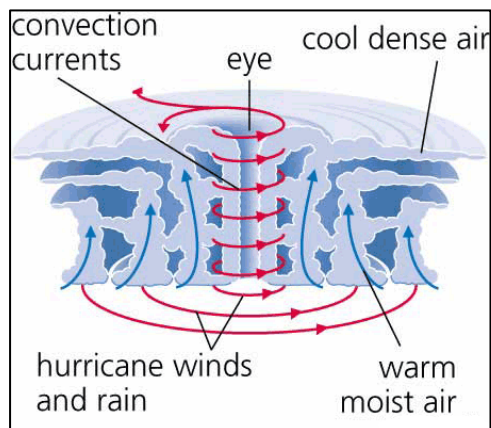
(2)



### Question 3

a. Fill in the blanks with the given words to show the main features of hurricanes.

**rises; oceans; vapour; westwards; 27 degrees; warm**



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.

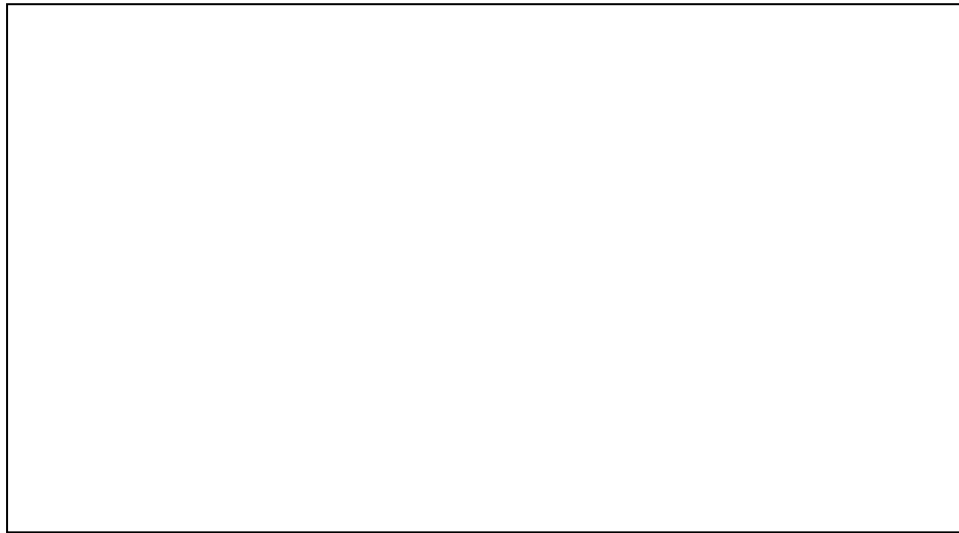
This heat energy powers the storm and causes it to move \_\_\_\_\_. (6)

- b. The three types of rainfall are Convectional, Frontal and Relief. Name the two types of rain that fall on the Maltese Islands.

\_\_\_\_\_ (2)

Draw a labelled diagram to explain **one of the two types of rain that falls on the Maltese Islands.**

(4)



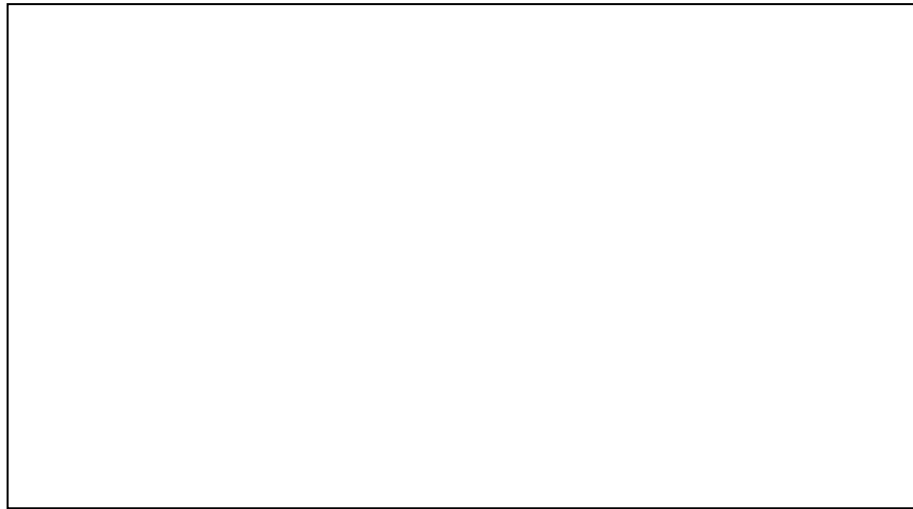
#### Question 4

Fill in the right geographical term in the blanks.

- The individual pieces of crust are called \_\_\_\_\_.
- \_\_\_\_\_ mountains will form at destructive plate boundaries.
- The oceanic crust is much younger than the continental crust for it is being lost through the \_\_\_\_\_ zone and new crust is forming at constructive plate boundaries.
- At \_\_\_\_\_ plate boundaries there is no volcanic activity.
- The \_\_\_\_\_ waves that occur during an earthquake are the most destructive.
- The \_\_\_\_\_ is a measure to calculate the energy released by the earthquake from scale 0 to 9.
- \_\_\_\_\_ volcanoes have erupted very recently. (7)
- 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 any **four** of these 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)

### Question 6

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

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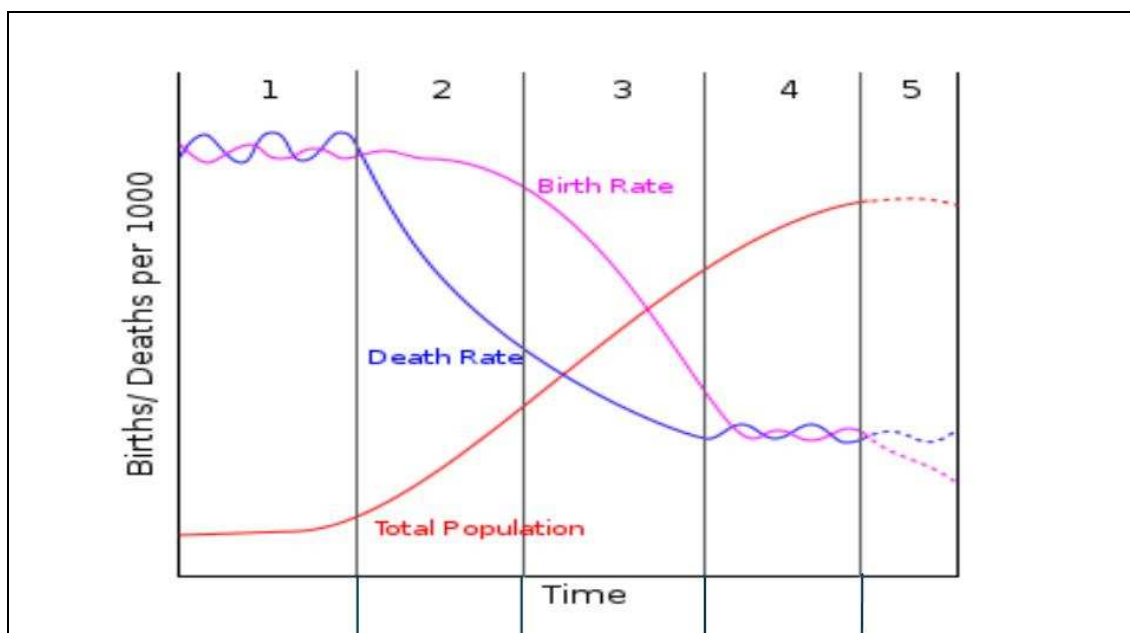
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(8)

### Question 7

Examine the Demographic Transition Model below and link the stages 1 to 5 with the related information.

**Demographic Transition Model**



| Information   | Stage |
|---|-------|
| Total population is high but going into decline due to an ageing population. There is a continued desire for smaller families, with people opting to have children later in life. |       |
| High birth rates and death rates result in a fluctuating but low population growth due to famine, disease or war.   |       |

|   |  |
|---|--|
| Total population is still rising rapidly. The gap between birth and death rates narrows due to the availability of contraception and fewer children being needed to work - due to the mechanisation of farming. The natural increase is high. |  |
| Total population rises as death rates fall due to improvements in health care and sanitation. Birth rates remain high.  |  |
| This is a period of very slow population growth with birth and death rates stabilized at a low level.   |  |

(10)

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

\_\_\_\_\_

\_\_\_\_\_ (2)

### Question 8

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

a. Contour ploughing \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

b. Controlled grazing \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

c. Crop Rotation \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(9)

### Question 9

Refer to the given terms to explain **three** methods by which flooding in Bangladesh and in other parts of the world can be reduced.



silt; embankment; trees; dam

1. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
2. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
3. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(9)

**End of Paper**