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.

<table>
<thead>
<tr>
<th>Question No.</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>Written Exam</th>
<th>Fieldwork Report</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Mark</td>
<td>12</td>
<td>8</td>
<td>12</td>
<td>12</td>
<td>8</td>
<td>8</td>
<td>12</td>
<td>9</td>
<td>9</td>
<td>90</td>
<td>10</td>
<td>100</td>
</tr>
</tbody>
</table>

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?
   ____________________________________________________ (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 between the coastline at Iċ-Ċumnija and that at Mellieha Bay?
   ____________________________________________________ _____________________________________________ (2)

d. What is the four figure grid reference of Santa Maria Estate?
   ____________________________________________________ (1)

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

____________________________
____________________________ (2)

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**.

![Diagram](image)

(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 of the 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**