TONGA GOVERNMENT
MINISTRY OF EDUCATION AND TRAINING

Tonga National Form Seven Certificate
2014
GEOGRAPHY

QUESTION AND ANSWER BOOKLET

Time Allowed: 3 Hours

INSTRUCTIONS

Write your Student Personal Identification Number (SPIN) on the top right hand corner of this page and on the last page.

Answer ALL QUESTIONS. Write your answers in the appropriate spaces provided in this Booklet. If you need more space for answers, ask the supervisor for extra paper.

Write your SPIN on all extra sheet used and number the question clearly. Attach the extra sheets at the appropriate places in this Booklet.

This paper is divided into THREE sections. Answer ALL three sections.

<table>
<thead>
<tr>
<th>SECTION</th>
<th>Marks</th>
<th>Suggested time</th>
</tr>
</thead>
<tbody>
<tr>
<td>SECTION A: NATURAL PROCESSES</td>
<td>30</td>
<td>54 minutes</td>
</tr>
<tr>
<td>SECTION B: CULTURAL PROCESS</td>
<td>30</td>
<td>54 minutes</td>
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<tr>
<td>SECTION C: GEOGRAPHIC SKILLS, CONCEPTS &amp; IDEAS</td>
<td>40</td>
<td>72 minutes</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100</td>
<td>180 minutes</td>
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</tbody>
</table>

Check that this booklet contains pages 2 – 27.

You should also have a 7 pages Resource Booklet (106/2) with this exam paper.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION
During your Form Seven Certificate course, you have studied a geographic environment in the Pacific focusing on interacting natural processes within it.

N.B: The information that is provided on this page is important for the questions that are to follow in Section A and should therefore be completed carefully and accurately.

In the frame below, name the geographic environment and the interacting natural processes that you have studied and will use to answer the questions in this section.

The name of the Pacific geographic environment studied:

The interacting natural processes operating within this geographic environment:
1. Select ONE natural process that operate in the geographic environment studied. Describe the elements that interact to form this natural process. Diagrams maybe used to assist your answer.

**Natural process:** __________________________________________________________

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(4 Marks)
2. Analyse how ONE high order natural process operates within the geographic environment studied. You may use diagram(s) to illustrate your answer.

**High Order Natural process:**

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(4 Marks)
3.a. Choose ONE natural process different from that in number 1. Identify TWO spatial variations found in the operation of this natural process in the geographic environment studied. You may use diagrams to illustrate your answer.

**Natural process:**

i. 

ii. ____________________________________________

b. Explain TWO reasons why there are spatial variations found in the operation of the natural process identified in a. in the geographic environment studied.

i. ____________________________________________

ii. ____________________________________________

(2 marks)
4. In the frame below, draw a sketch map of the geographic environment studied. **Locate** and **name** the natural features found there. You must apply all drawing conventions.

**Title:** ________________________________________________

<table>
<thead>
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<th><strong>Key</strong></th>
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(6 marks)
5. Explain how the interacting natural processes have affected the distribution of natural phenomena in the geographic environment studied. You may use diagrams to support your answer.

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(4 Marks)
6. Evaluate the extent to which TWO natural processes in the geographic environment studied have been modified by human actions. You may use diagrams to support your answer.
During your Form Seven Certificate course, you have studied a cultural process using illustrative examples from TWO settings: ONE from a Pacific Island nation, the other from the rest of the World.

In the frame below, name the cultural process that you have studied and will use to answer the questions in this section.

Name of the cultural process studied:

In the frames below, name the Pacific Island nation setting and the rest of the world setting that you have studied.

Name of the Pacific Island nation setting:

Name of the rest of the World setting:
1. Your Pacific Island setting and the rest of the World setting.

On the map below, **locate** and **name** your Pacific Island nation and the rest of the World settings you have studied and will use to answer the questions in **Section B**.

(2 marks)
2. Identify the elements of the studied cultural process then analyse the interactions involved in the cultural process in your Pacific Island setting. You may use diagrams to support your answer.
3. Compare and contrast the operation of the studied cultural process in your Pacific Island setting and the world setting. You may use diagrams to support your answer.

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4.a. Draw an annotated diagram in the frame below to show TWO spatial variations in the operation of the studied cultural process in the Pacific Island setting. You must apply all drawing conventions.

(2 marks)

b. Explain the causes of these spatial variations (a. above) in the operation of the studied cultural process in your Pacific Island setting. You may use diagrams to support your answer.

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(4 Marks)
5. Analyse how various factors such as social, political, economic, natural and/or technological have brought about changes in the operation of the studied cultural process in your Pacific Island setting. You may use diagrams to support your answer.
6. Evaluate the impact of the studied cultural process on the people and/or environment in your rest of the world setting. You may use diagrams to support your answer.
SECTION C : GEOGRAPHIC SKILLS, CONCEPTS & IDEAS (40 MARKS)

Complete ALL tasks in this section.

These tasks are based on the information provided in the separate Resource Booklet (No. 106/2) to assess your understanding and application of geographic skills, concepts and ideas.

The tasks in this Section have been designed so you can analyse the resources provided and gather information on El Nino.

Task 1: FORMATION OF EL NINO (ENSO) (8 Marks)

Refer to Resources 1.a & 1.b on page 2 of the Resource Booklet (No. 106/2) to answer the questions that follow.

a. Define El Nino in your own words.

________________________________________________________________________________
________________________________________________________________________________(1 mark)

b. Outline the factors that interact to cause the changes in the circulation of water and air across the Pacific Ocean.

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________________________________________________________________________________
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________________________________________________________________________________(2 marks)

c. Describe TWO differences between El Nino (ENSO) and La Nina.

1. ____________________________________________________________________________
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2. ____________________________________________________________________________
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________________________________________________________________________________(2 marks)
d. Construct a flow diagram showing the main processes thought to produce El Nino.

Title: ____________________________________________________________

(3 marks)
Task 2: OCCURRENCE OF EL NINO (ENSO) (9 Marks)

Refer to Resources 2, 3 & 4 on pages 3-4 of the Resource Booklet (No.106/2) to answer the questions that follow.

a. Use the outline provided below to draw a timeline showing the years that events of El Nino and La Nina occur as shown by Resource 2.

b. Describe the pattern of El Nino events that occurred since 1950.

_____________________________________________________________________________(1 mark)

c. Describe what Southern Oscillation Index is.

_____________________________________________________________________________(1 mark)

d. i. State TWO years that El Nino was very strong at.

1. ___________________________ 2. ___________________________ (1 mark)

ii. Justify your answer in d.i. above.

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____________________________________________________________________________________(2 marks)

d. Explain the limitation of the method used to predict El Nino.

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____________________________________________________________________________________(2 marks)
Task 3: IMPACT OF EL NINO (ENSO) (7 Marks)

Refer to Resources 5, 6 & 7 on pages 4-5 of the Resource Booklet (No. 106/2) to answer the questions that follow.

a. State the location (in latitudes and longitudes) of the region that experience most of El Nino’s dry condition.

   Latitudes: __________________________________________________________________________

   Longitudes:__________________________________________________________________________ (2 marks)

b. Describe the distribution pattern of El Nino events in a global scale.

   ____________________________________________________________________________________ (1 mark)

c. Construct a diagram to show the impact of El Nino on Fishing Industry.

   (2 marks)

d. Explain the message given by the cartoon about the impact of El Nino on the environment.

   ____________________________________________________________________________________

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   ____________________________________________________________________________________ (2 marks)
**Task 4: PERSPECTIVES ABOUT EL NINO (ENSO) (6 Marks)**

Refer to Resource 8 on page 6 of the Resource Booklet (No. 106/2) to answer the questions that follow.

a. i. Use the continuum provided below to locate the different views stated in the news articles a., b. and c. about the serious impact that El Nino has.

<table>
<thead>
<tr>
<th>Negative impact</th>
<th>Positive impact</th>
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ii. Justify your choices of locations on the continuum.

a. ________________________________________________________________________________ (2 marks)

b. ________________________________________________________________________________ (2 marks)

c. ________________________________________________________________________________ (2 marks)
Task 5: NEWS REPORT ON EL NINO (ENSO) (10 Marks)

Refer to Resources 1-9 on the Resource Booklet (No. 106/2) plus your understanding from doing Tasks 1-4 to write up a news report on El Nino for the public to be aware of the El Nino event and prepare for its occurrence.

a. Explain ONE geographic concept that is outline by Resource 9.

____________________________________________________________________________________

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(2 marks)

b. Write a news report on El Nino events and how to be prepared for its occurrence.

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### Tonga National Form Seven

#### 2014

**GEOGRAPHY**

*(FOR MARKER’S USE ONLY)*

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<thead>
<tr>
<th>SECTIONS</th>
<th>MARK</th>
<th>CHECK MARK</th>
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<tbody>
<tr>
<td><strong>A</strong></td>
<td>Natural Processes</td>
<td>30</td>
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<tr>
<td><strong>B</strong></td>
<td>Cultural Processes</td>
<td>30</td>
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<tr>
<td><strong>C</strong></td>
<td>GEOGRAPHIC SKILLS, CONCEPTS &amp; IDEAS</td>
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