INSTRUCTIONS

1. Write ALL your answers in this Booklet. Make sure you have the topographic map of ‘UIHA ISLAND (No. 78/1).

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

3. This paper is in THREE sections.

   SECTION A: GEOGRAPHIC SKILLS and IDEAS  20 Marks
   SECTION B: PHYSICAL ENVIRONMENT    32 Marks
   SECTION C: CULTURAL ENVIRONMENT   48 Marks

   TOTAL  100 MARKS

4. ALL questions are compulsory. Answer the questions in the spaces provided.

5. Extra paper is available from the supervisor if needed. Write your SPIN on each sheet, write the number of the question clearly then insert with the question to which it refer to.

5. Check that this booklet contains pages 2-31.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION

TOTAL MARKS 100
SECTION A : GEOGRAPHIC SKILLS and IDEAS

1. Map Drawing (4 Marks)

Study the Topographic Map of ‘Uiha Island on Sheet No. 78/1. On the précis map below, locate and name the:

- largest beach
- tourist resort
- largest settlement
- dominant vegetation on the east coast

PREcis MAP: ‘UIHA ISLAND
2. Map Reading (6 Marks)

Study the map of ‘Uiha Island on Sheet No. 78/1. Use it to answer the questions that follow.

a. Name the cultural feature located at grid reference 714988.

b. Calculate the distance by secondary road from the southeast ‘Uiha settlement to the northern Felemea settlement.

c. Calculate the approximate area of ‘Uiha Island.

d. Construct the cross-section of line A – B using the outline provided below.

<table>
<thead>
<tr>
<th>30</th>
<th>20</th>
<th>10</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(2 marks)

e. State ONE item of evidence from the map that the east coast of ‘Uiha Island is highland.

(1 mark)
3. Photograph Interpretation (4 Marks)

Study the Photograph of ‘Uiha Island and the Topographic Map on Sheet No. 78/1 then answer the questions that follow.

a. On the précis map below, locate the:

- main road
- smallest settlement area
- ONE area of change shown on the photograph but not on the map

'bUIHA ISLAND'

b. Name this type of photograph on Sheet No.78/1.

_________________________________________________________________________(1 mark)
4. Model Interpretation (3 Marks)

Study Lee’s model below then answer the questions that follow.

Lee’s model of origin and destination factors and intervening obstacles in migration

![Diagram of migration model with signs and obstacles]

a. Describe what the + and – signs on the model represent.

* + : _____________________________________________________________

* – : _____________________________________________________________ (1 mark)

b. Draw an arrow on the model to show the direction of migration. (1 mark)

c. Describe how intervening obstacles influence migration

___________________________________________________________________________ (1 mark)
5. **Cartoon Interpretation**  (3 Marks)

Study the **cartoon** below then answer the questions that follow.

![Cartoon Image]

**a.** State ONE item from the container in the cartoon.

___________________________________________________________________________(1 mark)

**b.** Describe ONE message from the cartoon.

___________________________________________________________________________(1 mark)

**c.** Describe how “Making Compost” affect the environment.

___________________________________________________________________________(1 mark)
1. **Map Interpretation** (5 Marks)

Study the map below then answer the questions that follow.

**MAP OF TONGA ISLAND**

(a) Draw a dotted line on the map to divide the TWO island types of Tonga Islands. Label the TWO island types. (2 marks)

(b) Choose ONE island type labelled on the map. Draw a diagram of how it is formed labelling clearly TWO processes on it. Apply all drawing conventions. (3 marks)
2. Data Analysis (5 marks)

Study the climate data for Nuku’alofa below then answer the questions that follow.

<table>
<thead>
<tr>
<th>Months</th>
<th>J</th>
<th>F</th>
<th>M</th>
<th>A</th>
<th>M</th>
<th>J</th>
<th>J</th>
<th>A</th>
<th>S</th>
<th>O</th>
<th>N</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature (°C)</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>24</td>
<td>23</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>23</td>
<td>23</td>
</tr>
</tbody>
</table>

(a) Complete the climograph of Nuku’alofa by drawing in the temperatures given in the table below:

b. Name the season from December to April.

___________________________________________________________________________(1 mark)

c. Describe the relationship between temperature and rainfall.

___________________________________________________________________________(1 mark)
3. Diagram Interpretation (4 Marks)

Study the Vegetation profile diagram below then answer the questions that follow.

- **Diagram**

a. Name the vegetation type shown in the diagram.

   __________________________________________________________ (1 mark)

b. Name the layer of vegetation at **Zone A**.

   __________________________________________________________ (1 mark)

c. Describe ONE characteristic of layer **Zone D**.

   __________________________________________________________ (1 mark)
   __________________________________________________________ (1 mark)

d. Describe ONE factor that cause the layers or zones shown in the diagram.

   __________________________________________________________ (1 mark)
4. Model Interpretation (4 Marks)

Study the model below then answer the questions that follow.

INTERACTION OF THE PHYSICAL ELEMENTS MODEL

a. Define interaction.

___________________________________________________________________________
___________________________________________________________________________(1 mark)

b. Explain the interaction: soil ←→ climate using examples:

_________________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________(3 marks)
5. Diagram Analysis (4 Marks)

Study the diagram below then answer the questions that follow.

**TYPES OF CORAL REEFS**

a. Describe ONE difference between a fringing reef and a barrier reef.

___________________________________________________________________________

___________________________________________________________________________(1 mark)

b. Describe how an atoll is form.

___________________________________________________________________________

___________________________________________________________________________(1 mark)

c. Arrange the reefs in their order of formation from the reef that is formed first to the last.

i._____________________, ii._______________________, iii._____________________ (2 marks)
6. Photograph Interpretation (4 Marks)

Study the **photograph** below then answer the questions that follow.

**WASTE DISPOSAL AT FANGA’UTA LAGOON**

![Photograph of waste disposal at Fangaa’uta Lagoon](image)

a. Name TWO types of waste products shown in the photograph.

___________________________________________________________________________(1 mark)

b. Describe TWO ways of how waste shown in the photo could cause problems to Fangaa’uta Lagoon.

i. ________________________________________________________________________(2 marks)

ii. ________________________________________________________________________(2 marks)

c. Describe ONE method of managing disposal of these types of wastes shown in the photo.

___________________________________________________________________________(1 mark)
7. **Paragraph Writing** *(6 Marks)*

With reference to named examples from Tonga, describe the

i. distribution of the main types of soil

ii. factors influencing the distribution of the main soil types.
1. TOURISM (12 Marks)

A. Map Study (3 Marks)

Study the map below then use it to answer the questions that follow.

i. Name this park with 3 active volcanoes & a unique Maori culture.
   ______________________________________________________________________(1 mark)

ii. Name this mountain.
    ______________________________________________________________________(1 mark)

iii. Name the main tourist attraction in this region.
     ______________________________________________________________________(1 mark)
B. Photograph Interpretation (3 Marks)

Study the photograph below then answer the questions that follow.

COROMANDEL PENINSULA BEACH, NZ

i. Describe TWO tourist activities carried out at Coromandel Peninsula Beach which are shown in the photo.

1. ______________________________________________________________________

2. ______________________________________________________________________ (2 marks)

ii. State ONE natural tourist attraction at Coromandel Peninsula Beach related to the tourist activities you described in i. above.

________________________________________________________________________ (1 mark)
C. Paragraph Writing (6 Marks)

With reference to named examples from Tonga, describe the

i. THREE factors that promote the growth of tourism;

ii. THREE effects tourism have on the economy.
2. POPULATION STUDIES (12 Marks)

A. Graph Analysis (3 Marks)

Study the population pyramid below then use it to answer the questions that follow.

<table>
<thead>
<tr>
<th>Male</th>
<th>India - 2011</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>65</td>
<td>52</td>
<td>39</td>
</tr>
<tr>
<td>26</td>
<td>13</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
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<td></td>
</tr>
</tbody>
</table>

i. State ONE feature of population pyramid from the graph shown.

_________________________________________________________________________(1 mark)

ii. Describe TWO characteristics of India's population shown by the population pyramid.

1. _______________________________________________________________________

_________________________________________________________________________

2. _______________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________ (2 marks)
B. Diagram Interpretation (3 Marks)

Study the diagram below then answer the questions that follow.

![India's Future Is In Its Cities](image-url)

i. State how many cities in India that will be in **Tier 1** in 2030.

___________________________________________________________________________(1 mark)

ii. State the urban population at **Tier 3** in 2008.

___________________________________________________________________________(1 mark)

iii. Describe what the diagram is showing about the future of India.

___________________________________________________________________________(1 mark)
C. **Paragraph Writing**  (6 Marks)

With reference to named examples from Tonga, describe the

i. causes of population growth;

ii. THREE effects of population growth on the environment.
3. AGRICULTURE (12 Marks)

A. Statistical Analysis (3 Marks)

Study the Table below then use it to answer the questions that follow.

**Agriculture: Total Income by farming type, 2008**
*(in percentage)*

<table>
<thead>
<tr>
<th>Fishing &amp; Forestry</th>
<th>Poultry &amp; other livestock farming</th>
<th>Dairy cattle farming</th>
<th>Horticulture</th>
<th>Sheep, beef cattle &amp; grain farming</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>5</td>
<td>39</td>
<td>10</td>
<td>26</td>
</tr>
</tbody>
</table>

i. Using the outline provided below, construct a graph to show the total income by farming type. Apply all drawing conventions.

**Title:**

**Key:**

(2 marks)

ii. Write ONE generalization about agriculture and income in New Zealand.

______________________________________________________________________
______________________________________________________________________

(1 mark)
B. Photograph Interpretation   (3 Marks)

Study the photograph below then answer the questions that follow.

**GLASSHOUSE FARMING**

i. Name the farming type carried out in a glass house shown by the photograph.

___________________________________________________________ (1 mark)

ii. Describe ONE characteristic of this farming type shown by the photo.

___________________________________________________________ (1 mark)

iii. Explain why glass house is a method of this farming type.

___________________________________________________________ (1 mark)
C. **Paragraph Writing**  
*(6 Marks)*

With reference to named examples from Tonga, describe

i. ONE agricultural system.

ii. the importance of agriculture to the economy.

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4. INDUSTRIALISATION (Manufacturing & Trade) (12 Marks)

A. Graph Analysis (3 Marks)

Study the graph below then answer the questions that follow.

i. State the biggest industry with its percentage.

ii. Complete the table below by classifying the following industries into Secondary and Tertiary. Use a tick (√).

<table>
<thead>
<tr>
<th>Industry</th>
<th>Secondary</th>
<th>Tertiary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wholesale &amp; Retail trade</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manufacturing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finance &amp; Insurance</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Source: Kyoto City Citizen’s Economic Calculation)
B. Model Interpretation     (3 Marks)

Study the model below then answer the questions that follow.

TRADE

i. State TWO inputs for industries shown in the model.

1. __________________________________________________________

2. _________________________________________________________(2 marks)

ii. State ONE negative effect of trade shown in the model.

_____________________________________________________________________(1 mark)
C. Paragraph Writing (6 Marks)

With reference to named examples from Tonga, describe the

i. importance of international trade to the economy.
ii. future prospects of industrial development.

______________________________________________________________________________________
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# TONGA SCHOOL CERTIFICATE

## 2014

### GEOGRAPHY

*(FOR MARKER’S USE ONLY)*

<table>
<thead>
<tr>
<th>SECTIONS</th>
<th>MARK</th>
<th>CHECK MARK</th>
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<tbody>
<tr>
<td>A Geographic Skills and Ideas</td>
<td>20</td>
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<tr>
<td>B Physical Environment</td>
<td>32</td>
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<tr>
<td>C Cultural Environment</td>
<td></td>
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**TOTAL** 100