

MARKER CODE				



STUDENT ENROLMENT NUMBER									

TONGA SCHOOL CERTIFICATE

2016

GEOGRAPHY

QUESTION AND ANSWER BOOKLET

Time Allowed : 3 Hours + 10 minutes reading

INSTRUCTIONS

1. This paper consists of **THREE SECTIONS** and is out of **100**.

SECTION	Topics	Total Skill Level
A	Geographic Skills and Ideas	20
B	Physical Environment	32
C	Cultural Environment	48
	TOTAL	100

2. Write your **Student Enrolment Number** on the top right hand corner of this page.
3. Answer **ALL** questions in the spaces provided in this booklet
4. Use **BLUE** or **BLACK** ball point pen. **DO NOT** write in pencil.
5. If you need more spaces for answers, ask the supervisor for extra paper.
6. Check that your paper consists of **31** pages.
7. Make sure you have the topographic map of **Niutoputapu Island (No. 78/1)**

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

SECTION A: GEOGRAPHICAL SKILLS AND IDEAS

Answer ALL questions in this section. You should spend about 36 minutes on this section.

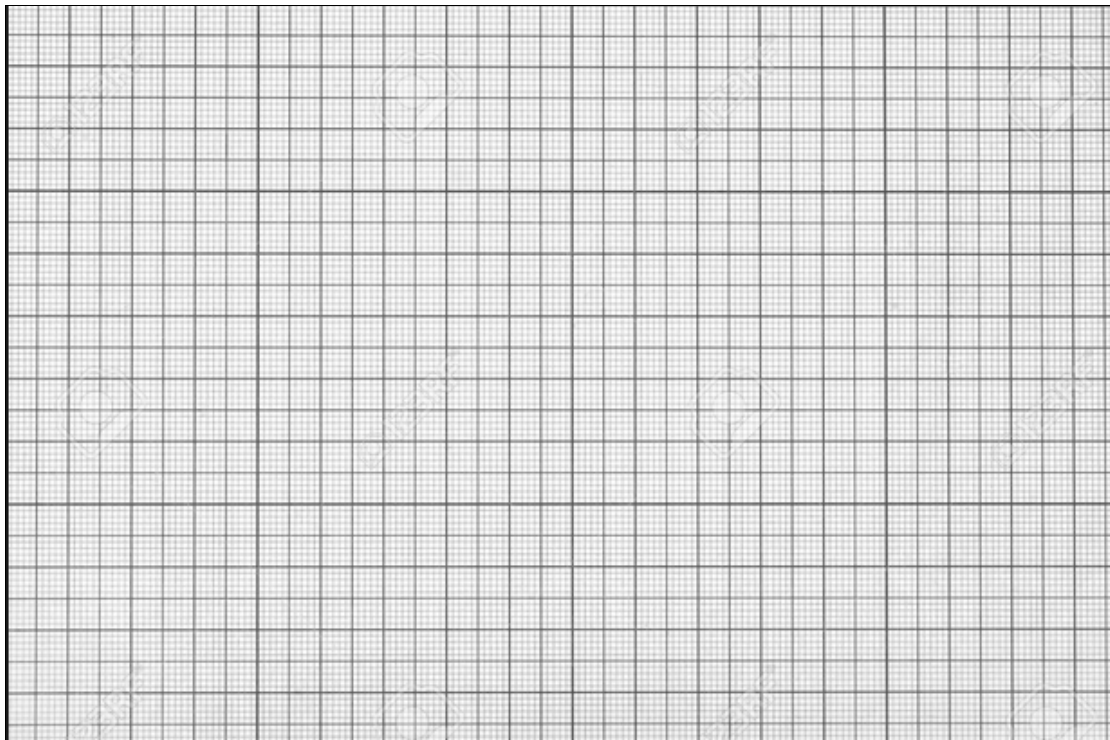
Part 1: Geographic Skills

Question 1 Map Reading

Study the map of **Niutoputapu Island** on **Sheet 78/1**. Use it to answer the questions that follow.

- a. Name the feature located on the Southwest of the jetty with an approximate distance of 4,675 meters.

- b. Draw the cross-section of line **A – B**.



Skill level 1	
1	
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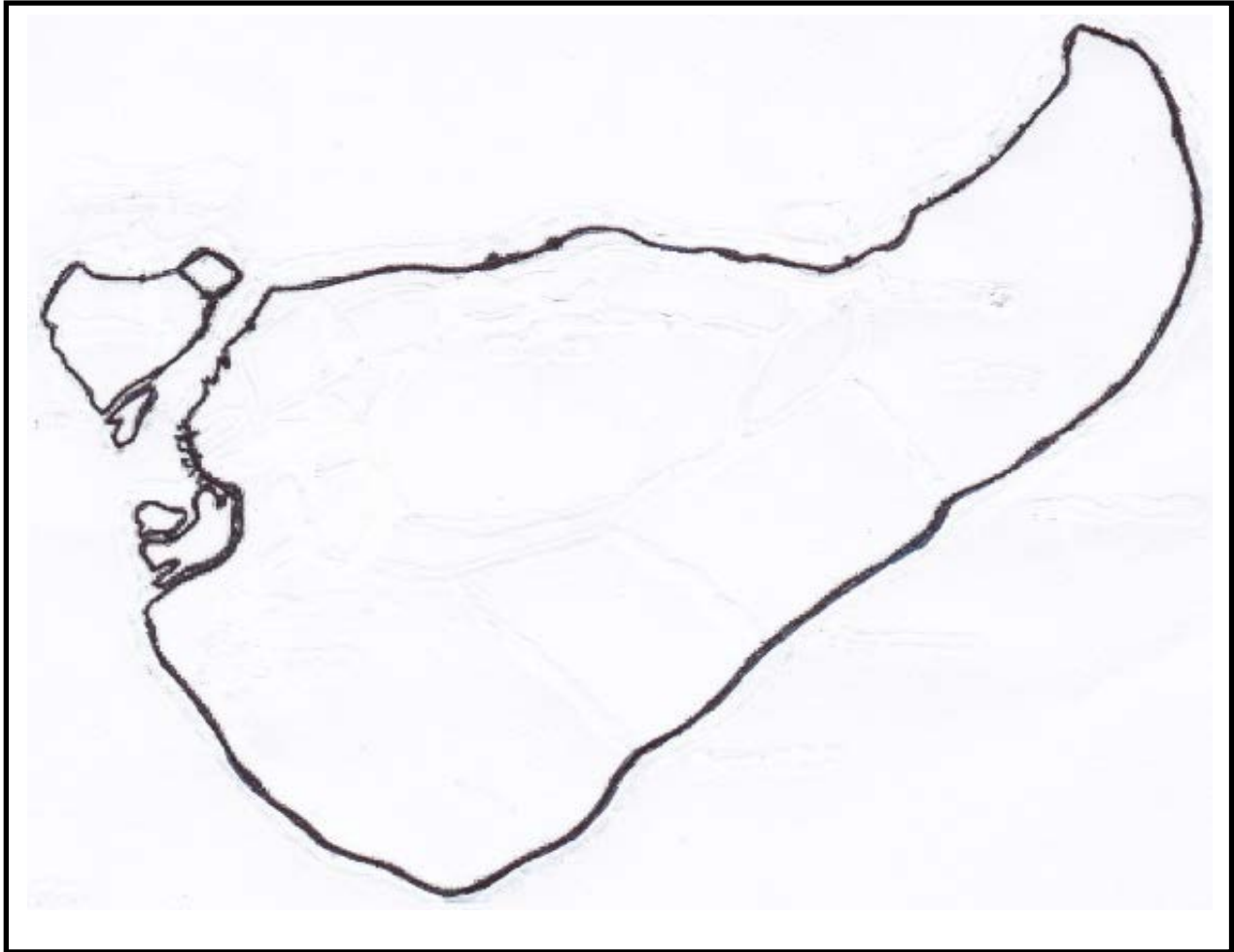
Skill level 3	
3	
2	
1	
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NR	

Question 2 Map Drawing

Study the **Topographic Map** of **Niuatoputapu Island** on **Sheet No. 78/1**.

On the precis map below **locate** the:

- largest wetland
- largest settlement area



KEY :



wetland



settlement area

Skill level 1	
1	
0	
NR	

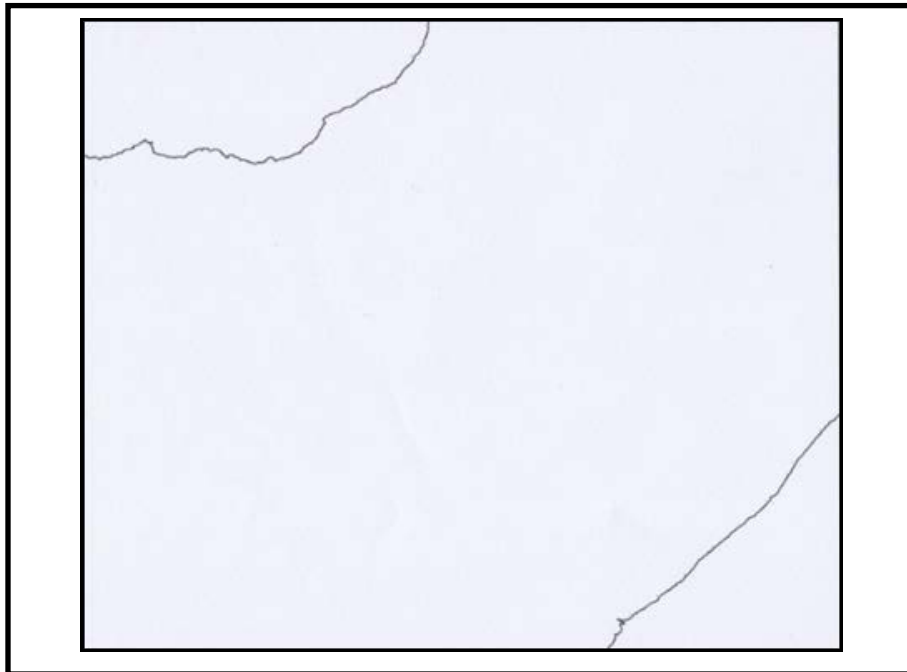
Skill level 1	
1	
0	
NR	

Question 3 Photograph Interpretation

Study the **Photograph** on **Sheet No. 78/1** then answer the questions that follow.

a. On the precis sketch below, **locate** the:

- jetty
- sandy beach



KEY :

jetty

sandy beach

Skill level 1	
1	
0	
NR	

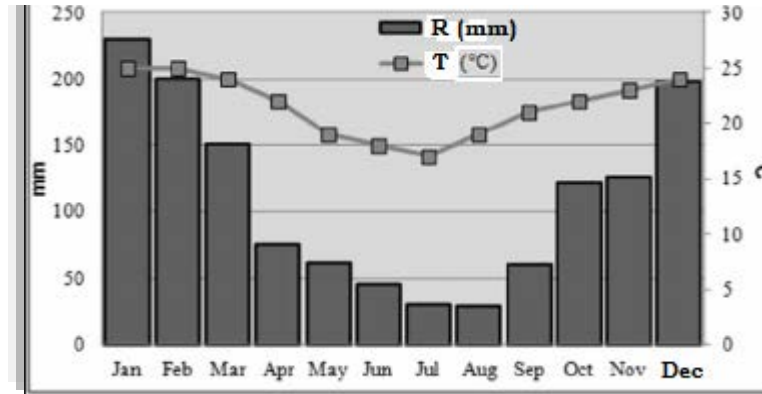
Skill level 1	
1	
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NR	

Question 4

Graph Interpretation

Study the **graph** carefully then answer the questions that follow.

CLIMOGRAPH OF HAKAUTU'UTU'U 2015



- a. Describe the relationship shown on the climograph above.

[illegible]

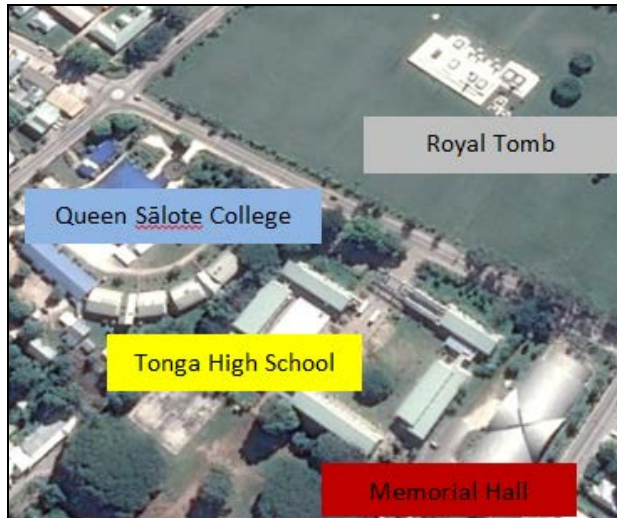
Skill level 2	
2	
1	
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Part 2: Geographic Ideas

Question 1 Location, Distance and Accessibility

Photo Interpretation

Study the **photo** carefully then answer the questions that follow.



- a. Name **ONE** (1) relative feature that can be used to determine the location of Tonga High School.

Skill level 1	
1	
0	
NR	

- b. Discuss how location and distance affect accessibility.

Skill level 3	
3	
2	
1	
0	
NR	

Question 2**Patterns and Processes****Map Interpretation**

Study the **Topographic Map** of **Niutoputapu** on **Sheet 78/1** then answer the questions that follow.

- a. Name **ONE** (1) environmental factor that encourages the pattern of settlement in Niutoputapu.

Skill level 1	
1	
0	
NR	

- b. Describe **ONE** (1) cultural process that modifies the western coast of the Government Estate.

Skill level 2	
2	
1	
0	
NR	

Question 3**Change****Photo Interpretation**

Study the **photo** carefully then answer the questions that follow.



- a. State **ONE** (1) change in the physical environment.

Skill level 1	
1	
0	
NR	

- b. State **ONE** (1) change in the cultural environment.

Skill level 1	
1	
0	
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- c. Name **ONE** (1) main factor which shows that the area is vulnerable to tsunamis.

Skill level 1	
1	
0	
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SECTION B: PHYSICAL ENVIRONMENT

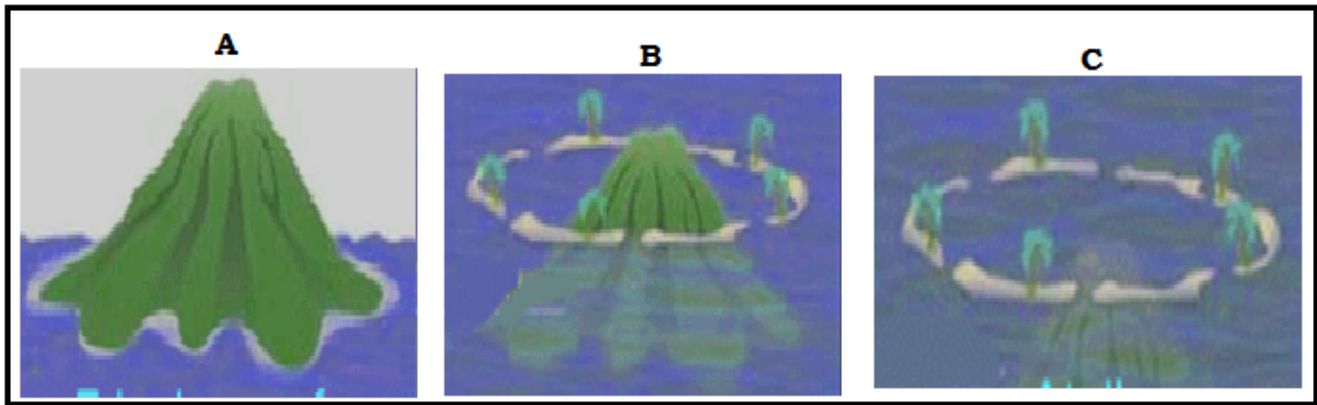
Answer ALL questions in this section. You should spend about 54 minutes in this section.

Part 1: Elements of the Physical Environments

Question 1 Relief

Study the **diagram** carefully then answer the questions that follow.

FORMATION OF CORAL REEFS



- a. Name the type of reef formed at **B**.

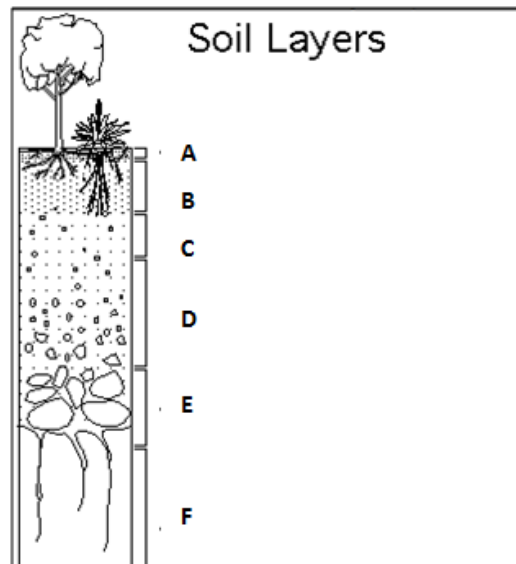
- b. Describe the features of reef **C**.

Skill level 1	
1	
0	
NR	

Skill level 2	
2	
1	
0	
NR	

Question 2**Soil****Diagram Study**

Study the **diagram** carefully then answer the questions that follow.



- a. Name the soil layer **F**.

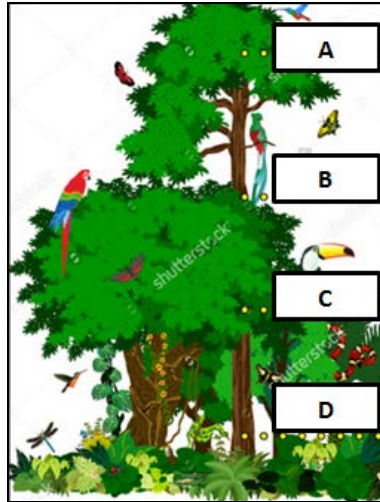
Skill level 1	
1	
0	
NR	

- b. Explain **ONE** (1) soil formation factor.

Skill level 3	
3	
2	
1	
0	
NR	

Question 3**Vegetation****Picture Interpretation**

Study the **picture** carefully then answer the questions that follow.



- a. Name the forest layer **A**.

- b. Describe **ONE** (1) importance of the vegetation type shown on the diagram above to the environment.

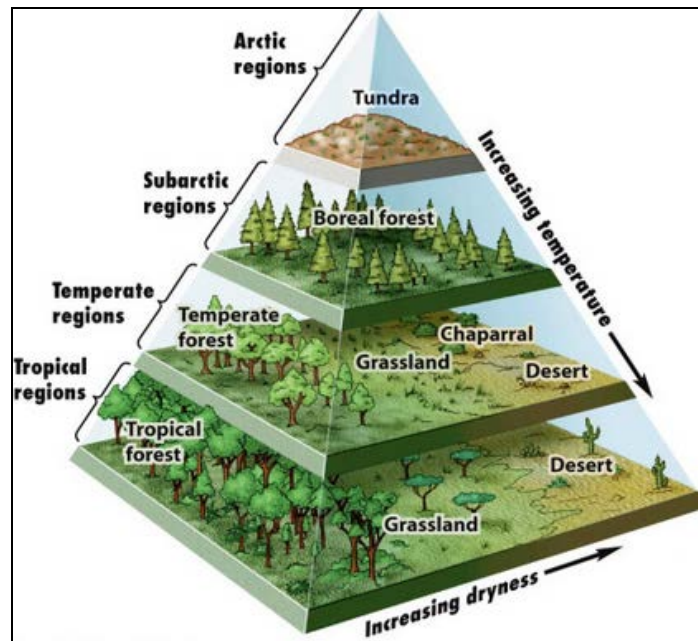
Skill level 1	
1	
0	
NR	

Skill level 2	
2	
1	
0	
NR	

Part 2: Interaction among the Physical Elements

Question 1 Model Interpretation

Study the **Model** carefully then answer the questions that follow.



- a. Describe the relationship between vegetation and relief.

Skill level 2	
2	
1	
0	
NR	

- b. Describe the relationship between climate and vegetation.

Skill level 2	
2	
1	
0	
NR	

- c. Describe the relationship between soil and vegetation.

Skill level 2	
2	
1	
0	
NR	

Part 3: Environmental Problems and Conservation Measures

Question 1 Cartoon Interpretation

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



- a. Discuss **ONE** (1) main factor which causes the change above.

Skill level 3	
3	
2	
1	
0	
NR	

- b. Explain the effects of this change on the environment.

Skill level 3	
3	
2	
1	
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Skill level 2	
2	
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NR	

- ii. Effects of Global warming.

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Skill level 4	
4	
3	
2	
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NR	

SECTION C: CULTURAL ENVIRONMENT

Answer ALL questions in this section. You should spend about 90 minutes on this section.

Part 1: Tourism Studies

Question 1: Map Work

Use the **map** below to answer the questions that follow.

- a. On the map of Tongatapu, locate and name;
- ONE natural tourist attraction site.
 - ONE cultural tourist attraction site.



KEY :



Natural attraction site



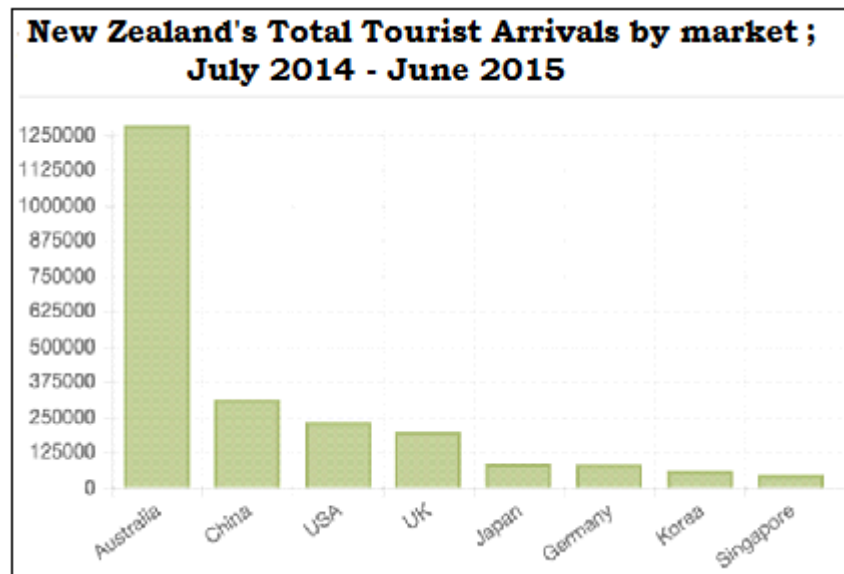
Cultural attraction site

Skill level 1	
1	
0	
NR	

Skill level 1	
1	
0	
NR	

Question 2: Graph Analysis

Study the graph carefully then answer the questions that follow.



- a. Name New Zealand's largest tourist market.

- b. Explain **ONE** (1) factor that determines the number of tourist arrivals to New Zealand.

Skill level 1	
1	
0	
NR	

Skill level 3	
3	
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Skill level 2	
2	
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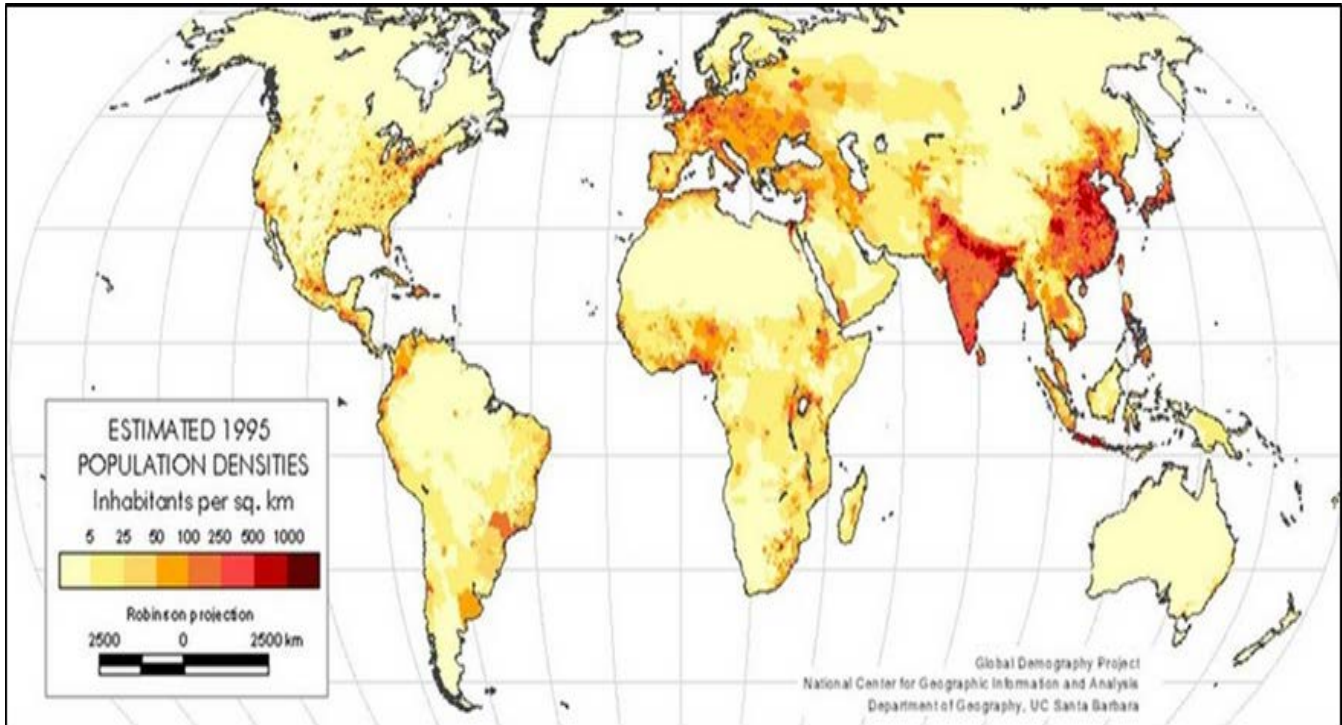
ii. Recommendation

Skill level 4	
4	
3	
2	
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Part 2: Population Studies

Question 1: Map Study

Study the **world map** carefully then answer the questions that follow.



a. Circle () India on the map.

Skill level 1	
1	
0	
NR	

b. Describe the population density of India.

Skill level 2	
2	
1	
0	
NR	

- c. Explain **TWO** (2) impacts of high population growth on the environment.

[illegible]

Skill level 3	
3	
2	
1	
0	
NR	

- ii. Effectiveness of the solution.

[illegible]

Skill level 4	
4	
3	
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NR	

Part 3: Agriculture

Question 1: Map Interpretation

Study the **picture** carefully then answer the questions that follow.

Figure 13.1: NZ merchandise imports sources (2012)

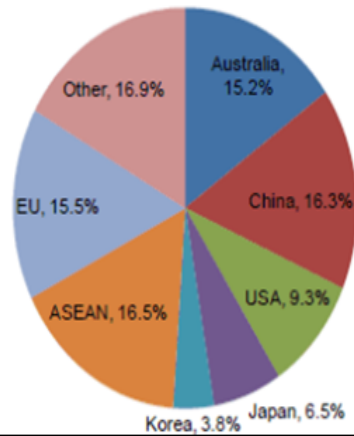
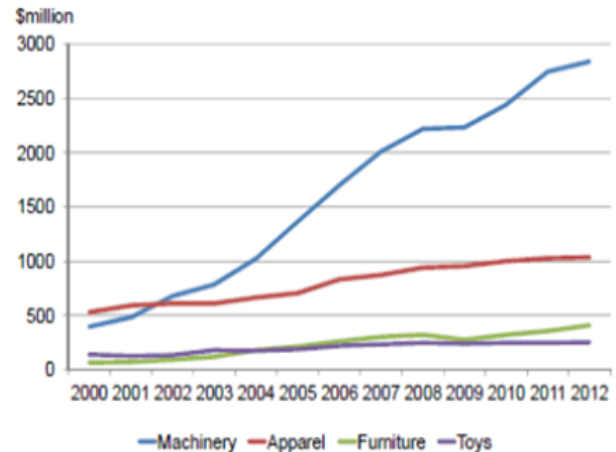


Figure 13.2: NZ imports from China



- a. Name the country that provided the least merchandise imports of New Zealand, 2012

Skill level 1	
1	
0	
NR	

- b. Describe the trend of New Zealand's machinery imports from China.

Skill level 2	
2	
1	
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NR	

c. Discuss the importance of agriculture to the economy of New Zealand.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Skill level 3	
3	
2	
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NR	

Skill level 2	
2	
1	
0	
NR	

ii. Solutions

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Skill level 4	
4	
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2	
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NR	

Part 4: Industrialization (Manufacturing and trade)

Question 1: Photo Interpretation

Study the **photo** carefully then answer the questions that follow.



- a. Name the type of industry shown on the photo.

- b. Describe **ONE** (1) factor that hinders the development of industries in Japan

- c. Discuss the effect of using high technology in Japanese industries as shown in the photo above.

Skill level 1	
1	
0	
NR	

Skill level 2	
2	
1	
0	
NR	

Skill level 3	
3	
2	
1	
0	
NR	

Question 2: Paragraph Writing

With reference to **named examples from Tonga:**

- i. explain the importance of manufacturing and trade to the economy.
- ii. predict future trends of industrial development.

- i. Importance of manufacturing

This image shows a full page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, typical of notebook paper. There are no margins, text, or other markings on the page.

Skill level 2	
2	
1	
0	
NR	

ii. Future trend of industrial development.

Skill level 4	
4	
3	
2	
1	
0	
NR	