

MARKER CODE			



Student Personal Identification Number (SPIN)					

TONGA GOVERNMENT
MINISTRY OF EDUCATION AND TRAINING

TONGA SCHOOL CERTIFICATE 2015 GEOGRAPHY

QUESTION AND ANSWER BOOKLET

Time Allowed: 3 Hours plus 10 minutes reading

INSTRUCTIONS

1. Write ALL your answers in this Booklet. Make sure you have the topographic map of **NOMUKA ISLAND (No. 78/1)**.
2. Write your **Student Personal Identification Number (SPIN)** on the top right hand corner of this page and on page 27.
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)

3. **ALL** questions are compulsory. Answer the questions in the spaces provided.
4. Extra paper is available from the supervisor if needed. Write your **SPIN** on each extra sheet, write the number of the question clearly then insert with the question to where it refers to.
5. Check that this booklet contains pages **2-27** in the correct order. Page 26 has been deliberately left blank.

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

TOTAL MARKS

100

SECTION A : GEOGRAPHIC SKILLS and IDEAS**(20 MARKS)**

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

1. Map Reading (8 Marks)

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

- a. Name the feature located at grid reference 310584.

- b. State the **compass direction** of standing at Matakalae looking at Matamaka.

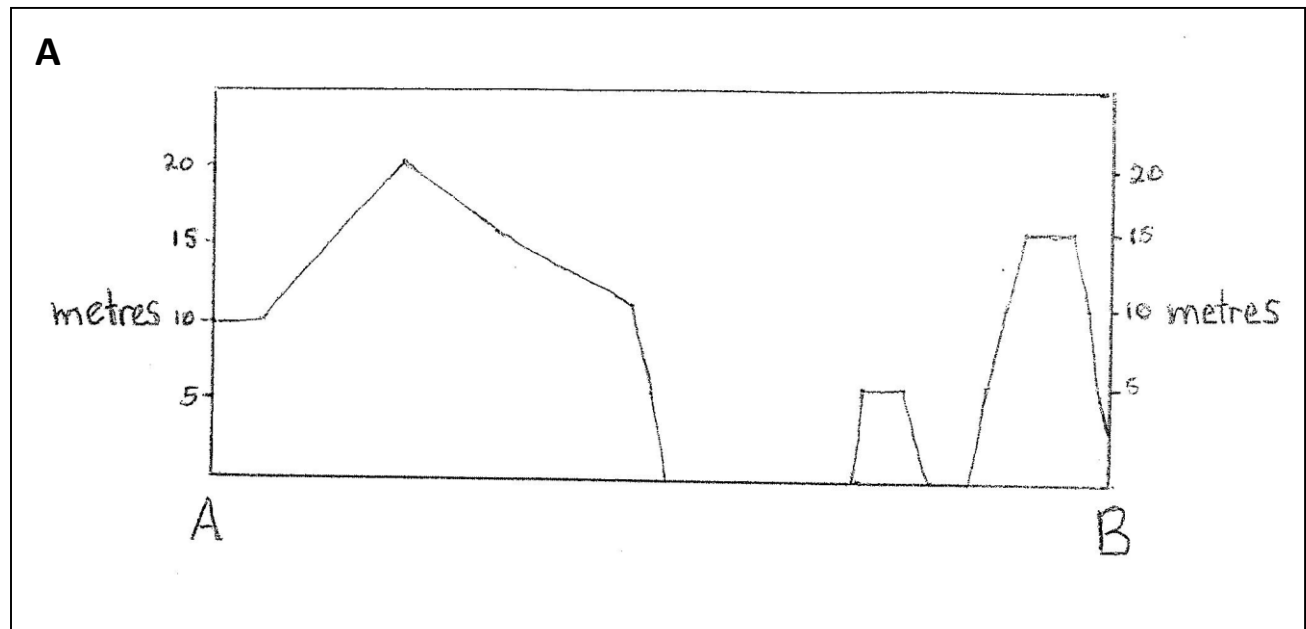
- c. Calculate the distance of the **shortest route** (road and track) you will take to walk from 'Ahau to Ha'afota Point.

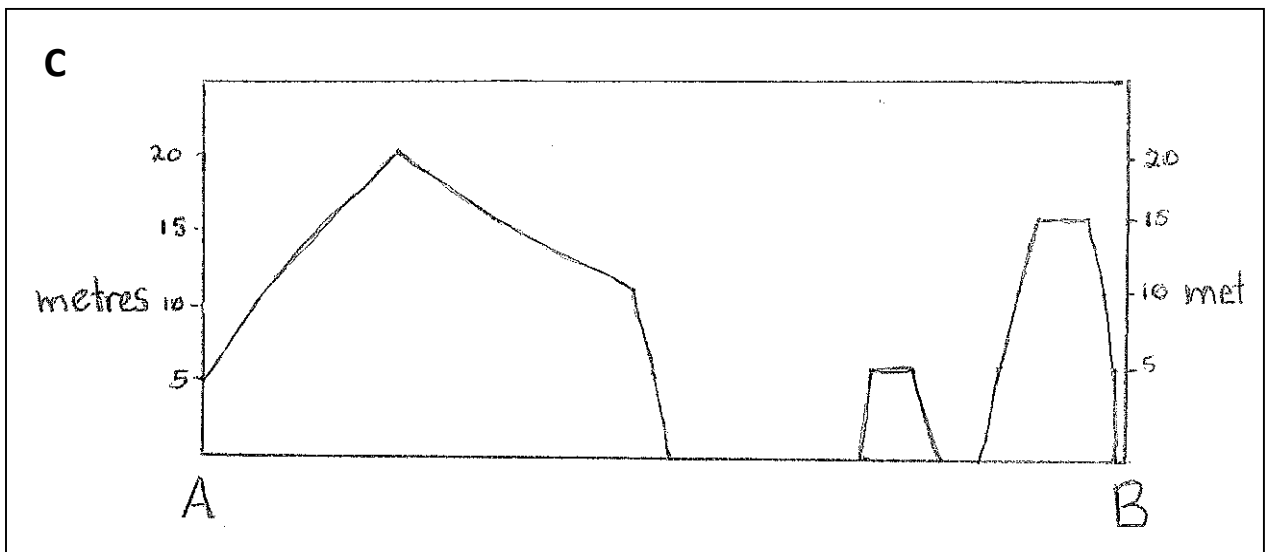
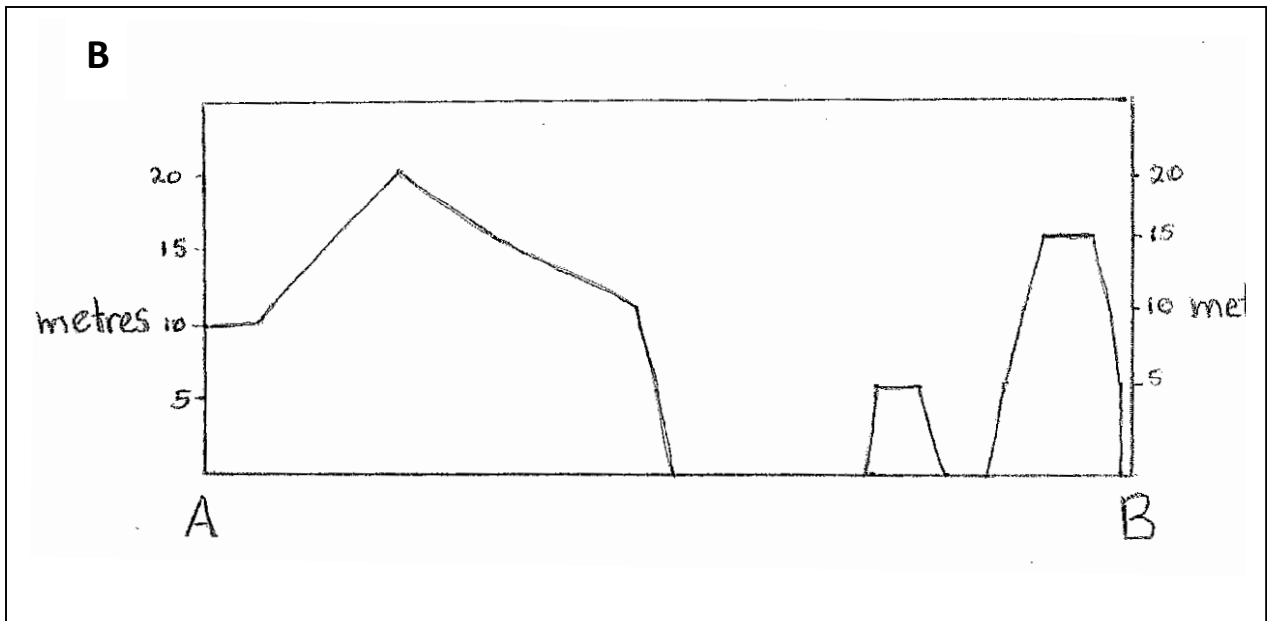
- d. Choose and circle the letter of the cross-section that represent line **A – B**.

1 mark	
1	
0	
NR	

1 mark	
1	
0	
NR	

2 marks	
2	
1	
0	
NR	





2 marks	
2	
1	
0	
NR	

- e. Explain what the contour lines on a topographic map represent about an island.

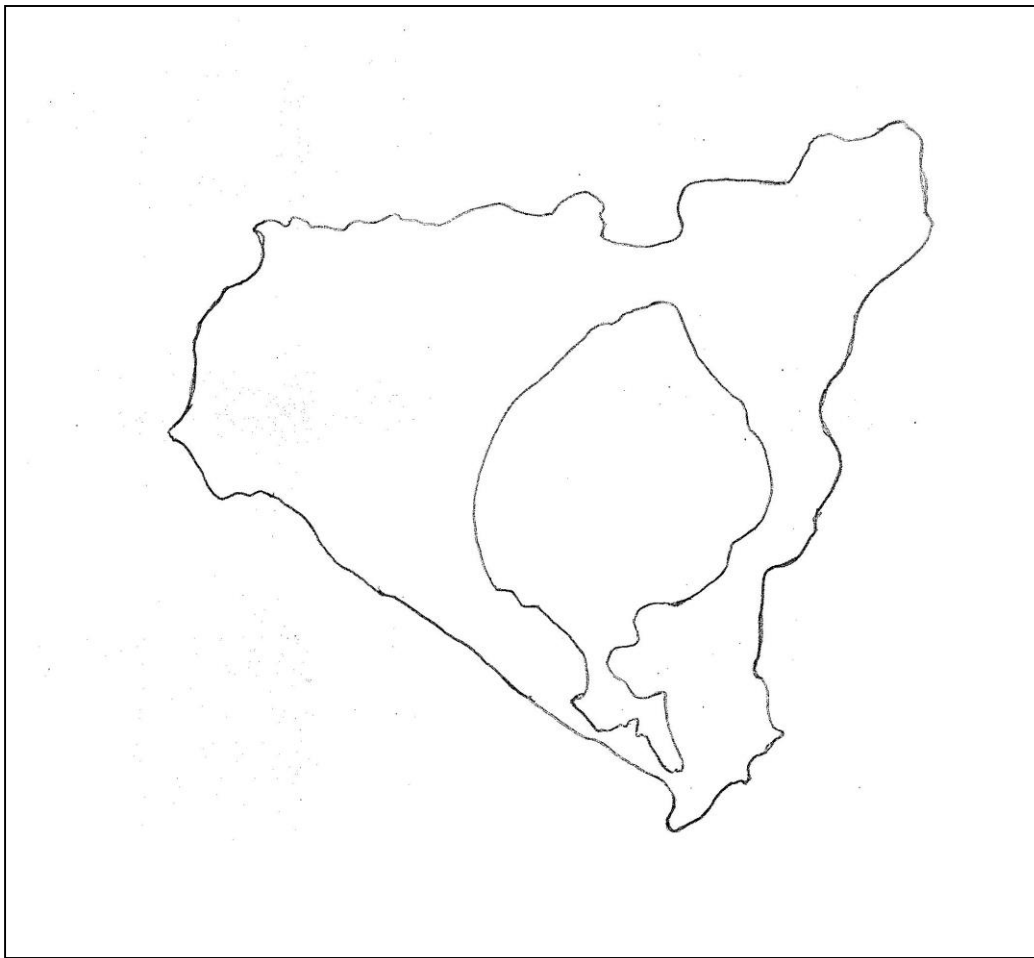
2 marks	
2	
1	
0	
NR	

2. Map Drawing (4 Marks)

Study the **Topographic Map** of **Nomuka Island** on **Sheet No. 78/1**. On the précis map below, **locate** the:

- road
- settlement area
- highest point on western Nomuka
- northern natural tourist attraction

PRECIS MAP: NOMUKA ISLAND



Key

☐	Road
☐	Settlement
☐	Highest point
☐	Northern natural tourist attraction

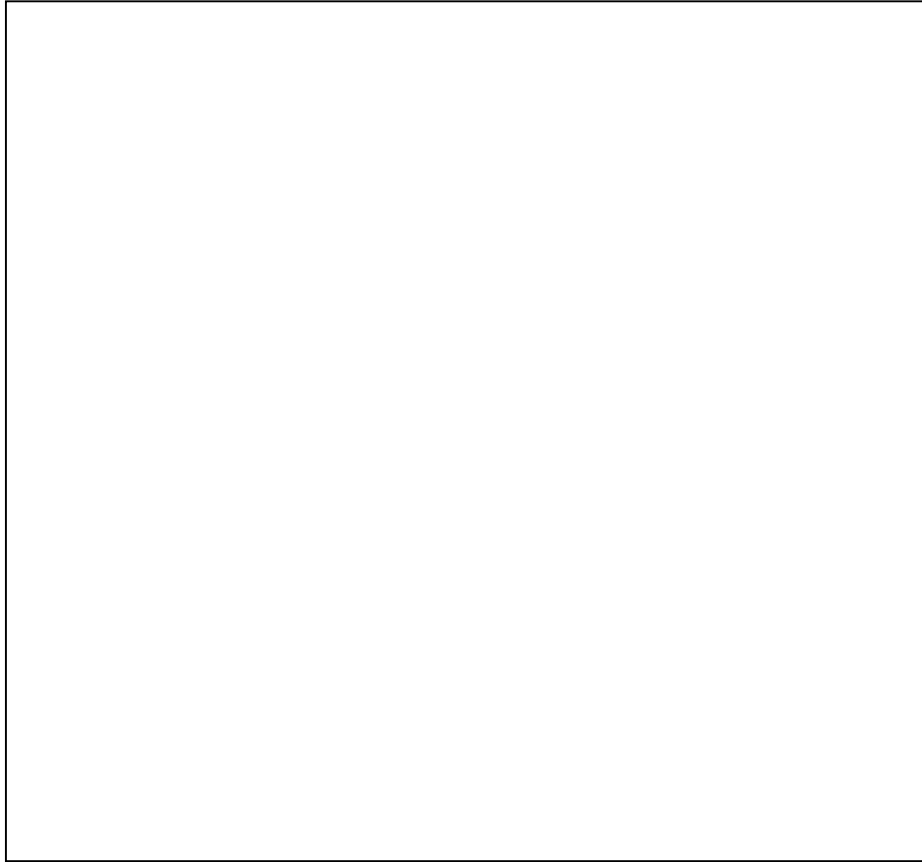
4 marks	
4	
3	
2	
1	
0	
NR	

3. Photograph Interpretation (3 Marks)

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

- a. On the précis sketch below, **locate** the:
- highland area
 - Lowland vegetation area
 - area of environmental change at foreground

Photo Precis Sketch



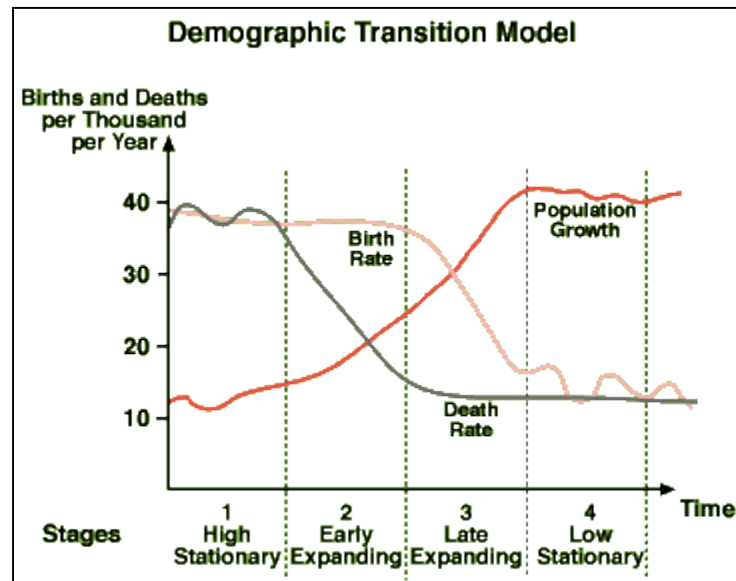
KEY

☐	highland
☐	lowland vegetation area
☐	area of environmental change at foreground

3 marks	
3	
2	
1	
0	
NR	

4. Model Interpretation (5 Marks)

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



- a. State ONE natural factor that affect population growth of a country.

1 mark

1	
0	
NR	

- b. Shade and name on the **model** the area that shows **natural increase**.

2 marks

2	
1	
0	
NR	

- c. Describe TWO characteristics of population at Stage 4

i. _____

ii. _____

2 marks

2	
1	
0	
NR	

SECTION B :**PHYSICAL ENVIRONMENT****(32 MARKS)**

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

1. **Island formation** (7 Marks)

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

New Island of Tonga Islands



- a. Name the type of island formed shown in the **photo**.

1 mark	
1	
0	
NR	

- b. State an evidence from the **photo** for your answer in a. above.

1 mark	
1	
0	
NR	

- c. Describe the natural event shown in the **photo**.

2 marks	
2	
1	
0	
NR	

- d. Use the outline provided below to draw a simple diagram of what caused this natural event to occur. Label clearly TWO processes of this natural event.

Title: _____

3 marks	
3	
2	
1	
0	
NR	

2. Climate (7 Marks)

Study the **Table of statistics** below then answer the questions that follow.

Climate of Vava'u

Months	J	F	M	A	M	J	J	A	S	O	N	D
Temperature (C°)	28	29	30	30	29	28	26	26	27	28	28	28
Rainfall (mm)	26	47	133	170	212	146	90	108	241	288	122	33

- a. Name the **wettest** month of Vava'u.

1 mark	
1	
0	
NR	

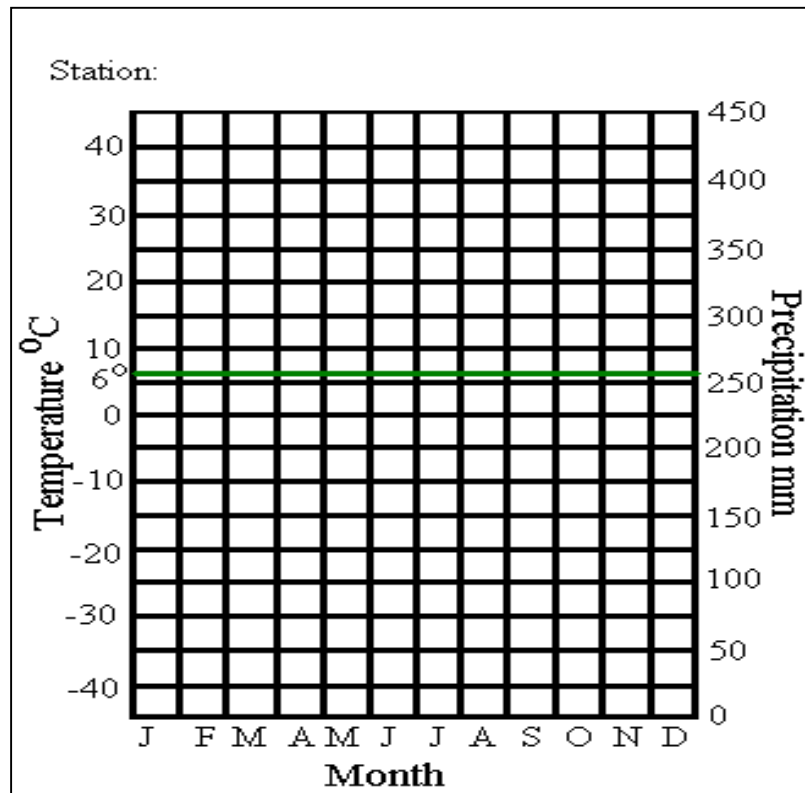
- b. Describe the climate features of Vava'u during July.

1 mark	
1	
0	
NR	

- c. Describe the distribution pattern of rainfall over the year for Vava'u.

2 marks	
2	
1	
0	
NR	

- d. Use the outline provided below to plot in the temperatures for Vava'u's climate.



3 marks	
3	
2	
1	
0	
NR	

3. Relief (6 Marks)

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

a.



b.



a. Define **relief**.

b. Compare and contrast by describing the relief features of **Photos a.** and **b.**

c. Explain the interaction between relief and vegetation as shown by the **photos**.

1 mark

1	
0	
NR	

3 marks

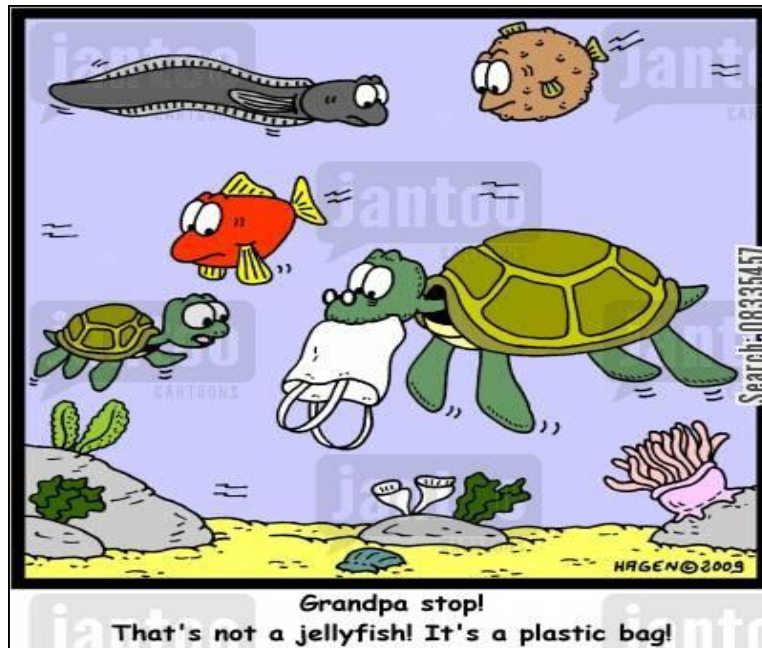
3	
2	
1	
0	
NR	

2 marks

2	
1	
0	
NR	

4. Environmental Problems (7 Marks)

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



- a. State the environmental problem shown in the **cartoon**.

1 mark	
1	
0	
NR	

- b. Describe the natural resources to be conserved as shown in the **cartoon**.

2 marks	
2	
1	
0	
NR	

- c. Explain why the plastic bag is bad for the turtle.

2 marks	
2	
1	
0	
NR	

- d. Explain the effect of plastic bag on the environment

2 marks	
2	
1	
0	
NR	

i. Distinctive physical features of coral island

ii. Island formation.

[illegible]

3 marks	
3	
2	
1	
0	
NR	

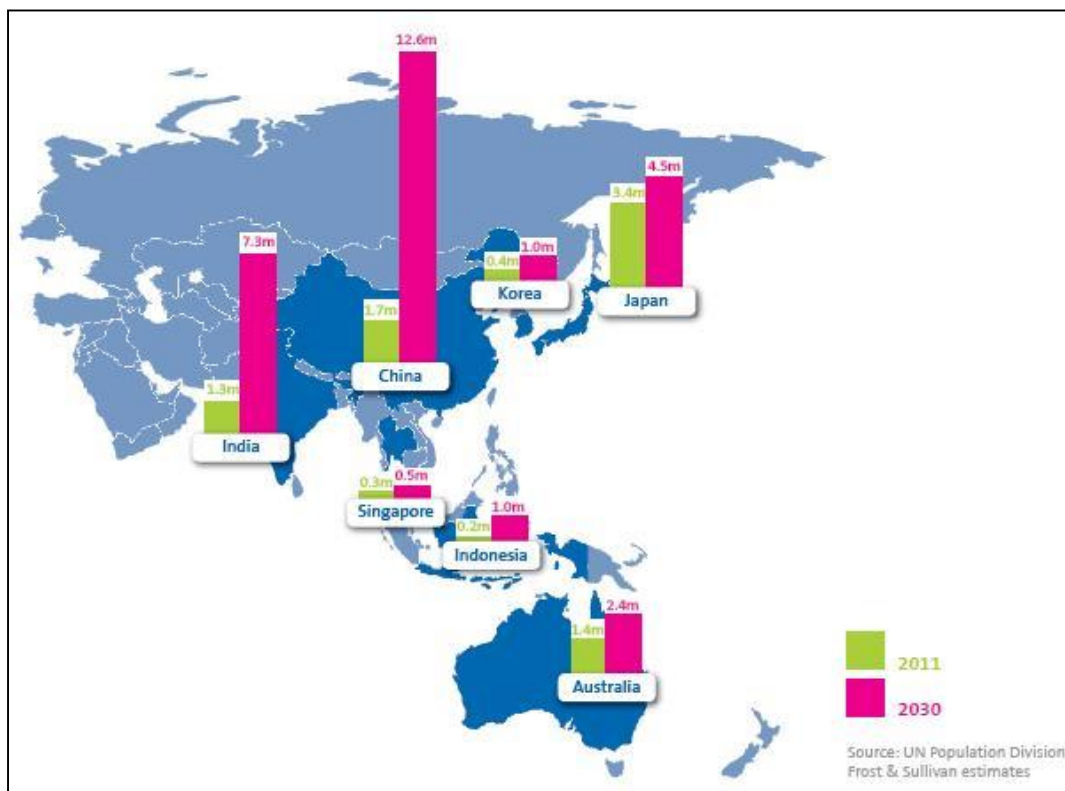
SECTION C : CULTURAL ENVIRONMENT**(48 MARKS)**

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

1. TOURISM**(12 MARKS)****A. Map Study (6 Marks)**

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

Map: Source Countries for Tourism in New Zealand.



- i. Rank the source countries with the **least** to the **highest** number of tourists to New Zealand in 2030 by locating the names on the continuum below.

Least _____ Highest

3 marks	
3	
2	
1	
0	
NR	

- ii. Compare the distribution patterns of source countries of 2011 and 2030.

3 marks	
3	
2	
1	
0	
NR	

B. Paragraph Writing (6 Marks)

With reference to named examples from Tonga,

- i. describe the tourism type.
 ii. explain the importance of tourism to the economy.

- i. Nature of tourism.

3 marks	
3	
2	
1	
0	
NR	

ii. Importance of tourism to the economy.

[illegible]

3 marks	
3	
2	
1	
0	
NR	

2. POPULATION STUDIES**(12 MARKS)****A. Statistical Analysis (7 Marks)**

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

POPULATION BALANCESHEET (in crore)

	2011	2001	Increase
Total Population	121.01	102.8	18.15 (17.64)
(a) Male	62.37	53.22	9.15 (17.19)
(b) Female	58.64	49.65	8.99 (18.12)
Sex Ratio*	940.27	932.91	7.36
Population Density+	382	325	57
0-6 years population	15.88	16.38	-0.50 (-3.08)
(a) Male	8.29	8.5	-0.20 (-2.42)
(b) Female	7.58	7.88	-0.29 (-3.80)
Child Sex Ratio*	914.23	927.31	13.08
Literacy rate (%)	74.04	64.83	9.21
(a) Male	82.14	75.26	6.88
(b) Female	65.46	53.67	11.79

Note: Figures in brackets indicate percentage increase;
 *Females per 1,000 males; +Number of persons/sq.km.

- i. Define population density.

1 mark	
1	
0	
NR	

- ii. Draw a line graph to show the trend of the **literacy rate**. Use an appropriate title.

Title: _____

2 marks	
2	
1	
0	
NR	

- iii. Analyse the statistics for the population 0 – 6 years between 2001 and 2011 shown in the Statistical Table.

3 marks	
3	
2	
1	
0	
NR	

B. Paragraph Writing (6 Marks)

With reference to named examples from Tonga,

- i. explain THREE factors that influence population distribution pattern;
- ii. analyse the problems associated with the distribution pattern.

- i. Factors that influence population distribution pattern.

3 marks	
3	
2	
1	
0	
NR	

- ii. Problems associated with the distribution pattern described in part I (page 18).

[illegible]

3 marks	
3	
2	
1	
0	
NR	

3. AGRICULTURE**(12 MARKS)****A. Photograph Interpretation (6 Marks)**

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

FARMING in HA'APAI

- i. Name the farming type shown in the **photo**.

- ii. Fill in the agricultural system below using the information from the **photo** given.

Title: _____		
<u>Input</u>	<u>Throughput</u>	<u>Output</u>
1. _____	<i>hoeing</i>	2. _____

1 mark	
1	
0	
NR	

2 marks	
2	
1	
0	
NR	

- iii. Identify ONE traditional method of planting crops that is shown in the **photo**.

1 mark	
1	
0	
NR	

- iv. Explain ONE advantage of the traditional method of planting crops you stated in iii. above.

2 marks	
2	
1	
0	
NR	

B. Paragraph Writing (6 Marks)

With reference to named examples from New Zealand,

- i. explain the agricultural changes in ONE type of agriculture.
- ii. analyse the importance of this type of agriculture on the economy.

- i. Changes in ONE type of agriculture.

3 marks	
3	
2	
1	
0	
NR	

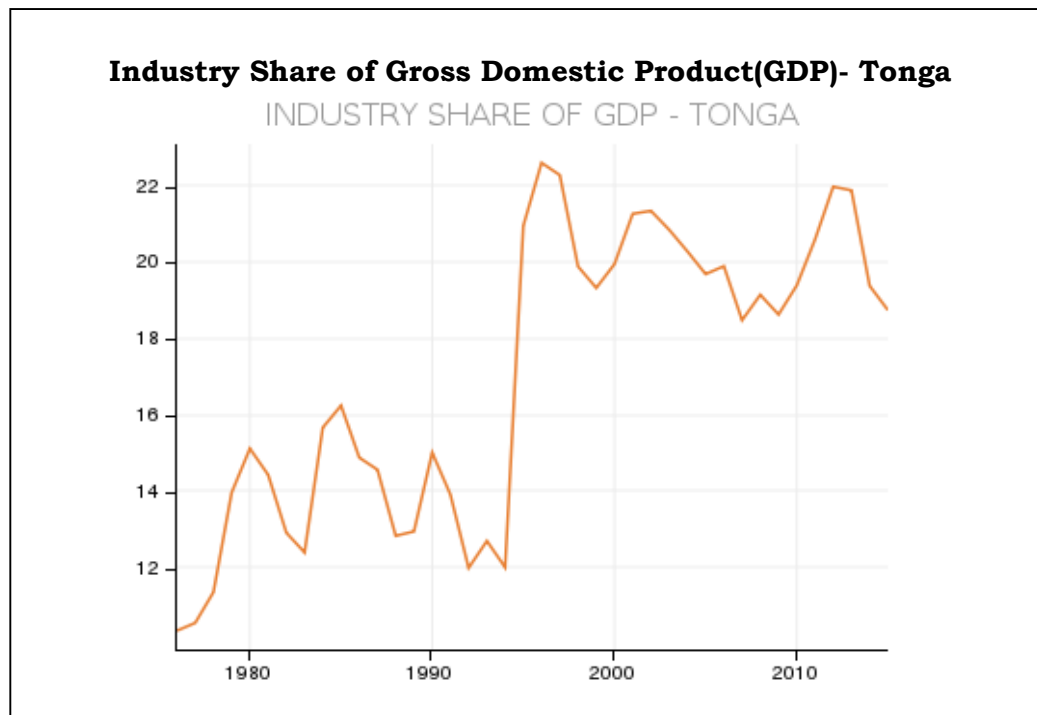
ii. Importance of this type of agriculture on the economy.

[illegible]

3 marks	
3	
2	
1	
0	
NR	

4. INDUSTRIALISATION (Manufacturing & Trade)**(12 MARKS)****A. Graph Analysis (6 Marks)**

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



- i. State the period where the industry's share was the highest shown in the graph.

1 mark

1

0

NR

- ii. Describe what the graph is showing about the Industry share of the GDP.

2 marks

2

1

0

NR

- iii. Compare and contrast the trend for Industry share of GDP between 1980-1990 and 2000 -2010.

3 marks

3

2

1

0

NR

- i. explain the factors that contribute to the growth of ONE type of manufacturing industry.
- ii. analyse the importance of this manufacturing industry to the economy.

[illegible]

3 marks	
3	
2	
1	
0	
NR	

ii. Importance of this type of manufacturing industry to the economy.

[illegible]

3 marks	
3	
2	
1	
0	
NR	

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Student Personal Identification Number (SPIN)					

TONGA SCHOOL CERTIFICATE

2015

GEOGRAPHY

(FOR MARKER'S USE ONLY)

	SECTIONS	MARK			CHECK MARK
A	Geographic Skills and Ideas			20	
B	Physical Environment			32	
C	Cultural Environment	<i>Q.1</i>	12		48
		<i>Q.2</i>	12		
		<i>Q.3</i>	12		
		<i>Q.4</i>	12		
	TOTAL			100	