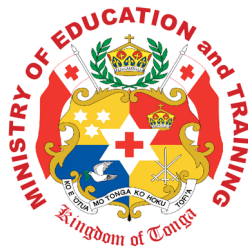


MARKER CODE				



STUDENT ENROLMENT NUMBER (SEN)									

TONGA FORM SIX CERTIFICATE

2021

GEOGRAPHY

QUESTION AND ANSWER BOOKLET

Time allowed: 3 Hours

INSTRUCTIONS:

1. Write your **Student Enrolment Number (SEN)** on the top right-hand corner of this page.
2. This paper consists of **TWO SECTIONS** and is out of 70 weighted scores.

QUESTION	STRANDS	TOTAL SKILL LEVEL
SECTION A: PHYSICAL GEOGRAPHY		32
ONE	NATURAL HAZARDS	26
TWO	THE USE AND MANAGEMENT OF WATER RESOURCES	6
SECTION B: CULTURAL GEOGRAPHY		38
THREE	CONSEQUENCES OF POPULATION GROWTH	15
FOUR	THE CHALLENGE OF URBANIZATION AND URBAN ENVIRONMENTS	14
FIVE	GEOGRAPHIC PERSPECTIVES ON TOURISM	9
TOTAL		70

3. Answer **ALL QUESTIONS**. Write your answers in the spaces provided in this booklet.
4. Use a **BLUE** or **BLACK** ball point pen only for writing. Use a pencil for drawing if required.
5. If you need more space for answers, ask the supervisor for extra paper. Write your **Student Enrolment Number (SEN)** on each additional sheet, number the questions clearly and insert them in the appropriate places in this booklet.
6. Check that this booklet contains pages **2 - 19** in the correct order and that none of the pages is blank.

YOU MUST HAND IN THIS BOOKLET TO THE SUPERVISOR BEFORE YOU LEAVE THE EXAMINATION ROOM.

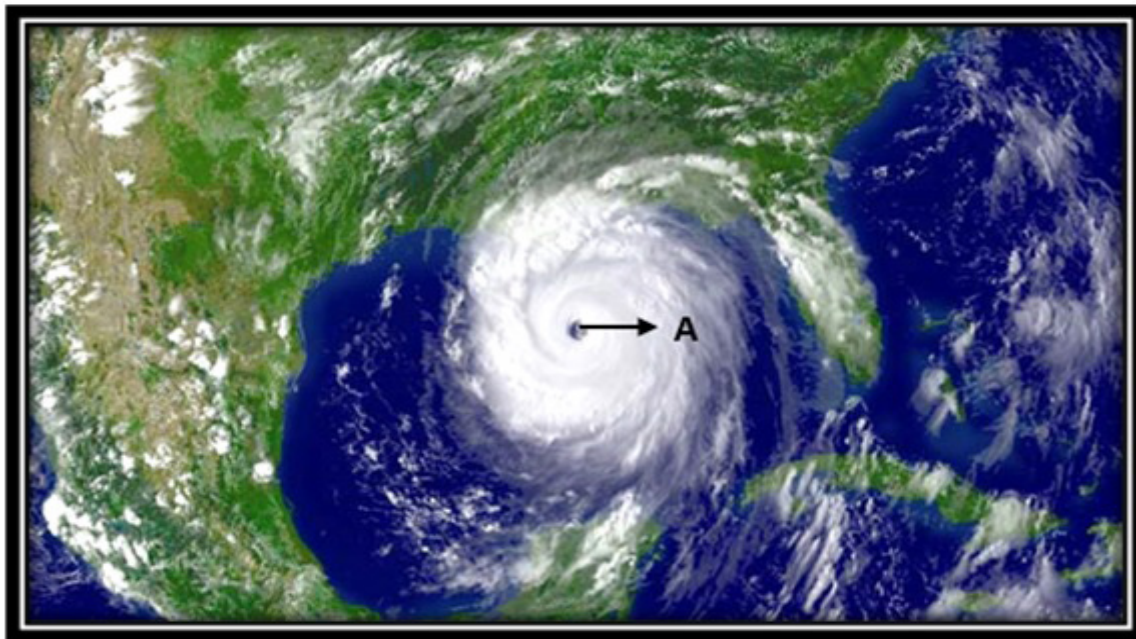
SECTION A: PHYSICAL GEOGRAPHY

QUESTION ONE: NATURAL HAZARDS

A. TROPICAL CYCLONES

Study **Resource 1**, then answer the questions.

Resource 1: Satellite capture of clouds spiralling into shapes



Source: *livescience.com*

1. Describe what a Tropical Cyclone is.

Skill level 2	
2	
1	
0	
NR	

2. Name the centre of the spiralling clouds labelled **A** in **Resource 1**.

Skill level 1	
1	
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NR	

3. With reference to **Resource 1**, describe the characteristics of the part labelled **A**, of a Tropical Cyclone.

Skill level 2	
2	
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4. Analyse the processes that occur for the development of a Tropical Cyclone.

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Skill level 3	
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NR	

5. Identify an effect of a Tropical Cyclone on the environment that you studied.

With reference to a named **Case Study**, explain planned responses to Tropical Cyclones and its implications.

Skill level 1	
1	
0	
NR	

6. With reference to a named **Case Study**, explain planned responses to Tropical Cyclones and its implications.

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Skill level 3	
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B. VOLCANOES OR EARTHQUAKES

Choose **ONE** topic to answer the questions:

i. **VOLCANOES** OR ii. **EARTHQUAKE**

In the frame below, write the topic of your choice, and use it to answer the questions that follow.

TOPIC: _____

1. Provide a definition for your named topic in the box above.

Skill level 1	
1	
0	
NR	

Study the map in **Resource 2** to answer questions **2.** And **3.**

Resource 2: Recent earthquakes and volcanic eruptions.



Source: Jacaranda Atlas, Sixth Edition

2. Describe the location of your named topic.

Skill level 2	
2	
1	
0	
NR	

3. Identified features of volcanic activities are found within the location 23°- 30°N and 150°-160°W in **Resource 2**. Such locations are known as:

Skill level 1	
1	
0	
NR	

4. Explain the effects of your named topic on the environment. Provide with examples from a **Case Study**.

[illegible]

Skill level 3	
3	
2	
1	
0	
NR	

5. List **TWO (2)** features of your identified named topic.

- i. _____
- ii. _____

Skill level 1	
1	
0	
NR	

6. Name an effect of your named topic on the lives of people.

Skill level 1	
1	
0	
NR	

Use **Resource 3** to answer the following question.

Resource 3



Source: ncema.gov.ae

7. What evidence does **Resource 3** contain that identifies **ONE** planned response to your named topic and its implications.

Skill level 1	
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NR	

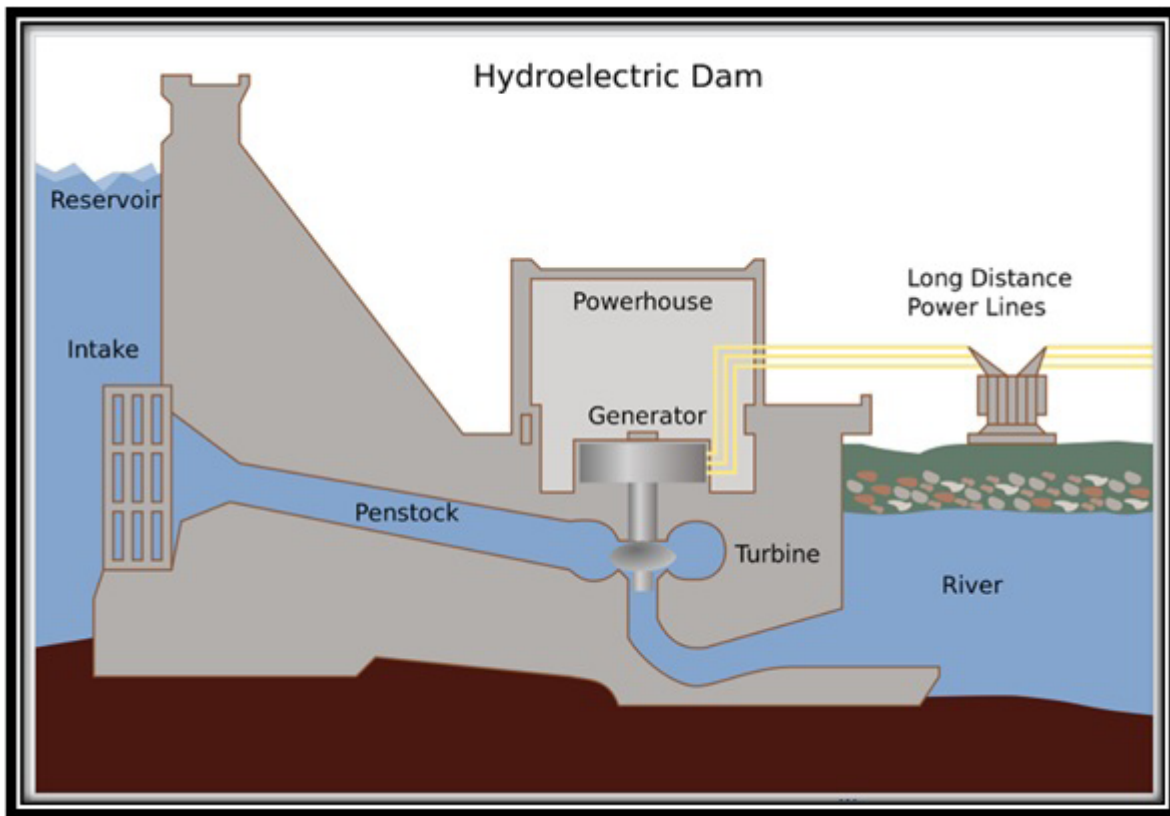
8. With reference to a named **Case Study**, evaluate the effectiveness of strategies used for minimizing the negative effects of your named topic.

Skill level 4	
4	
3	
2	
1	
0	
NR	

QUESTION TWO: THE USE AND MANAGEMENT OF WATER RESOURCES

Study **Resource 4** below, then answer the questions that follow.

Resource 4: A Hydroelectric Dam



Source: energyeducation.ca

1. Define the term **reservoir**.

2. Describe factors that affect the global distribution of water resources.

Skill level 1	
1	
0	
NR	

Skill level 2	
2	
1	
0	
NR	

3. With reference to a named **Case Study**, explain different uses of water in relation to the diagram in **Resource 4**.

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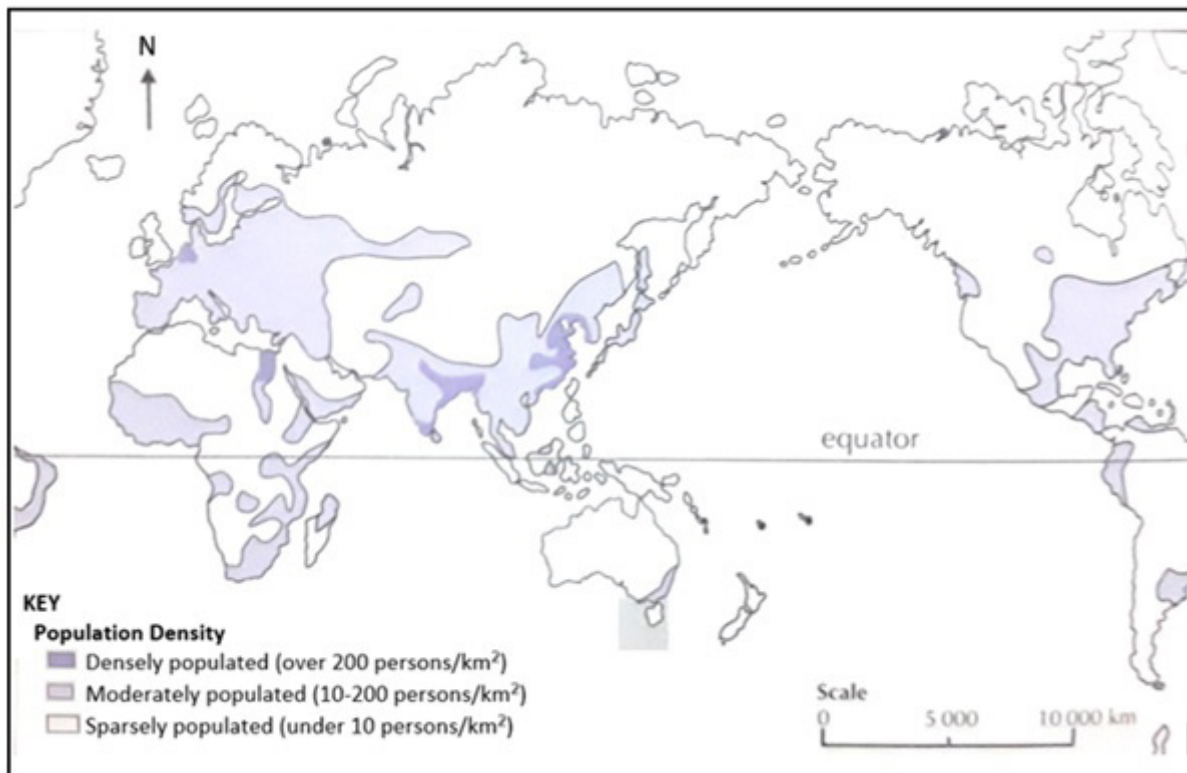
Skill level 3	
3	
2	
1	
0	
NR	

SECTION B: CULTURAL GEOGRAPHY

QUESTION THREE: CONSEQUENCES OF POPULATION GROWTH

Study **Resource 5** below, to answer the questions that follow.

Resource 5: A World Population Map 2021



Source: *ESA Study Guide Level 1 Geography*

1. Identify the pattern of global population distribution.

2. Name a natural factor that causes population distribution.

Skill level 1	
1	
0	
NR	

Skill level 1	
1	
0	
NR	

3. With reference to **Resource 5**, distinguish areas of high population density and a sparse populated area.

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Skill level 3	
3	
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NR	

Read **Resource 6** to help you answer the questions that follow.

Resource 6: A percept of China's neighboring countries and its changing population growth rates

As countries become more developed, birth rates tend to fall due to education or other priorities such as careers.

Its neighbouring countries Japan and South Korea, for example, have also seen birth rates fall to record lows in recent years despite various government incentives for couples to have more children.

Last year, South Korea recorded more deaths than births for the first time in history, raising fresh alarm in a country which already has the world's lowest birth rate.

Shrinking populations are problematic due to the inverted age structure, with more old people than the young.

Source: *asia.nikkei.com*

4. Identify **ONE** natural factor that causes population change.

Skill level 1	
1	
0	
NR	

5. Japan is a developed country. Identify a planned response to solve the **negative** impact of a declining population growth.

Skill level 1	
1	
0	
NR	

6. With reference to a named **Case Study**, analyse the **negative** economic effects of population growth on people.

[illegible]

Skill level 3	
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NR	

7. Identify a **negative** socio-cultural effect of population growth on people.

Skill level 1	
1	
0	
NR	

8. Evaluate the **negative** environmental effects of population change on your named **Case Study**.

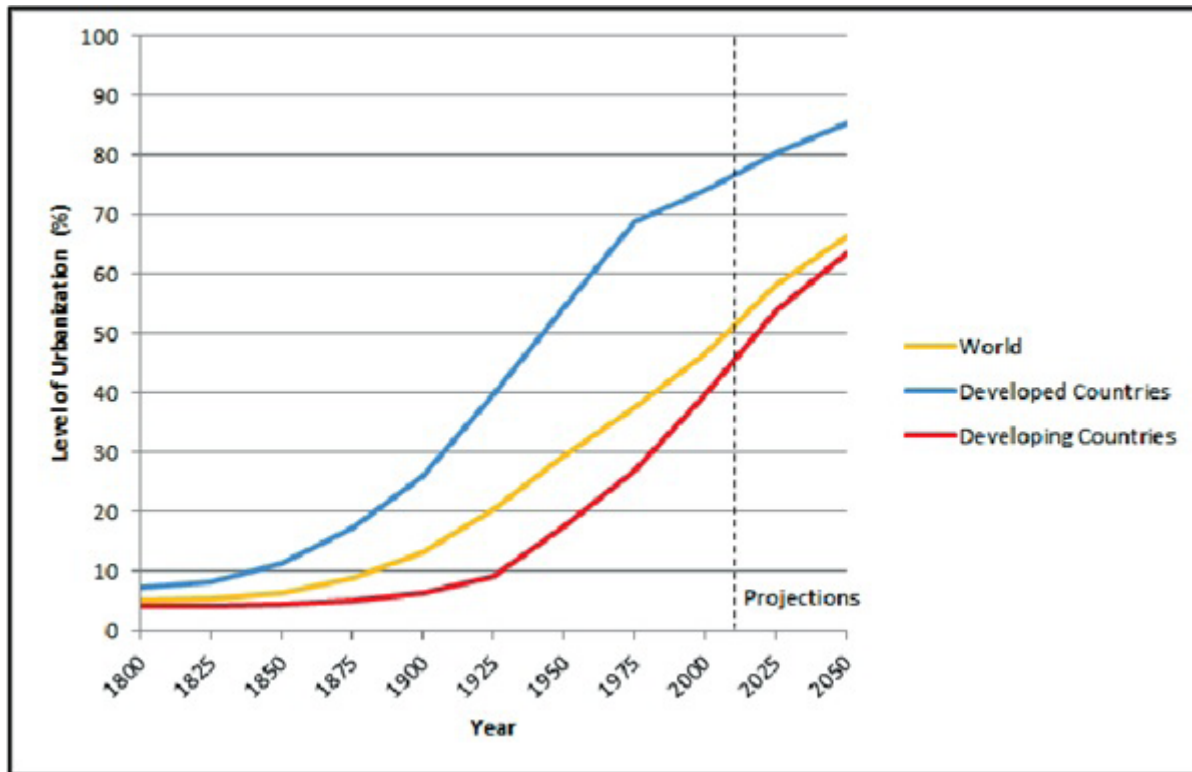
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Skill level 4	
4	
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NR	

QUESTION FOUR: THE CHALLENGE OF URBANIZATION AND URBAN ENVIRONMENTS

Study **Resource 7** to help you answer the questions that follow.

Resource 7: The levels of Urbanization



Source: googlesearch.com

1. Define the term **urbanization**.

Skill level 1	
1	
0	
NR	

2. Describe the type of graph shown in **Resource 7**.

Skill level 2	
2	
1	
0	
NR	

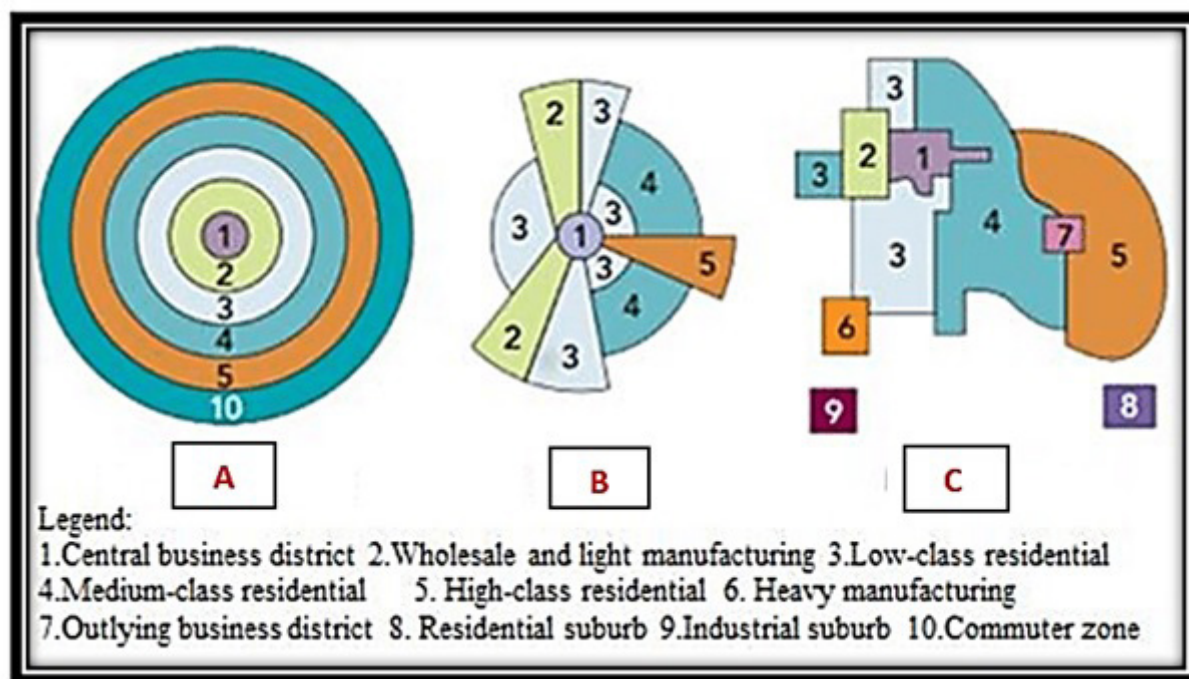
3. Explain the reasons for the trend shown in **Resource 7**.

[illegible]

Skill level 3	
3	
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Study **Resource 8** to help you answer the questions that follow.

Resource 8: Models of Urban Growth



Source: *researchgate.net*

4. Choose **ONE (1)** Urban Growth Model from **Resource 8**. Write the **letter A or B or C** and the **name** of the Urban Growth Model chosen.

Skill level 1	
1	
0	
NR	

5. With reference to your named Model of Urban Growth in **4.** above, explain how it minimizes the effects of urban settlement.

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Skill level 3	
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6. With reference to a named city of a developed country you have studied, evaluate the effectiveness of the structure (*i.e. location of functions and activities*) of **Model C** in managing urban areas.

[illegible]

Skill level 4	
4	
3	
2	
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NR	

QUESTION FIVE: GEOGRAPHIC PERSPECTIVES ON TOURISM

Study **Resource 9** to answer the questions that follow.

Resource 9: The Challenge faced by Tourism



Source: YouTube

1. State a **negative** economic effect of tourism on people.

Skill level 1	
1	
0	
NR	

2. Describe a **negative** political effect of tourism on people by referring to a **Case Study**.

Skill level 2	
2	
1	
0	
NR	

3. Explain how socio-cultural factors might cause a decline in tourism.

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Skill level 3	
3	
2	
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NR	

4. Analyse the statement in **Resource 9, THE COVID-19 IS THE TOUGHEST CHALLENGE EVER FACED BY TOURISM** using a **Case Study**.

This image shows a single 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	
1	
0	
NR	