

MARKER CODE				



STUDENT ENROLMENT NUMBER (SEN)									

TONGA FORM SIX CERTIFICATE

2018

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 **FIVE SECTIONS** and is out of 70 Skill Level.

SECTION	TOPICS	TOTAL SKILL LEVEL
A	LIVING WITH NATURAL HAZARDS	30
B	THE USE AND MANAGEMENT OF WATER RESOURCES	14
C	CONSEQUENCES OF POPULATION GROWTH	6
D	THE CHALLENGES OF URBANIZATION	10
E	GEOGRAPHIC PERSPECTIVES ON TOURISM	10
	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 spaces 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 **2-27** in the correct order and that pages 25-27 has been deliberately left blank.

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

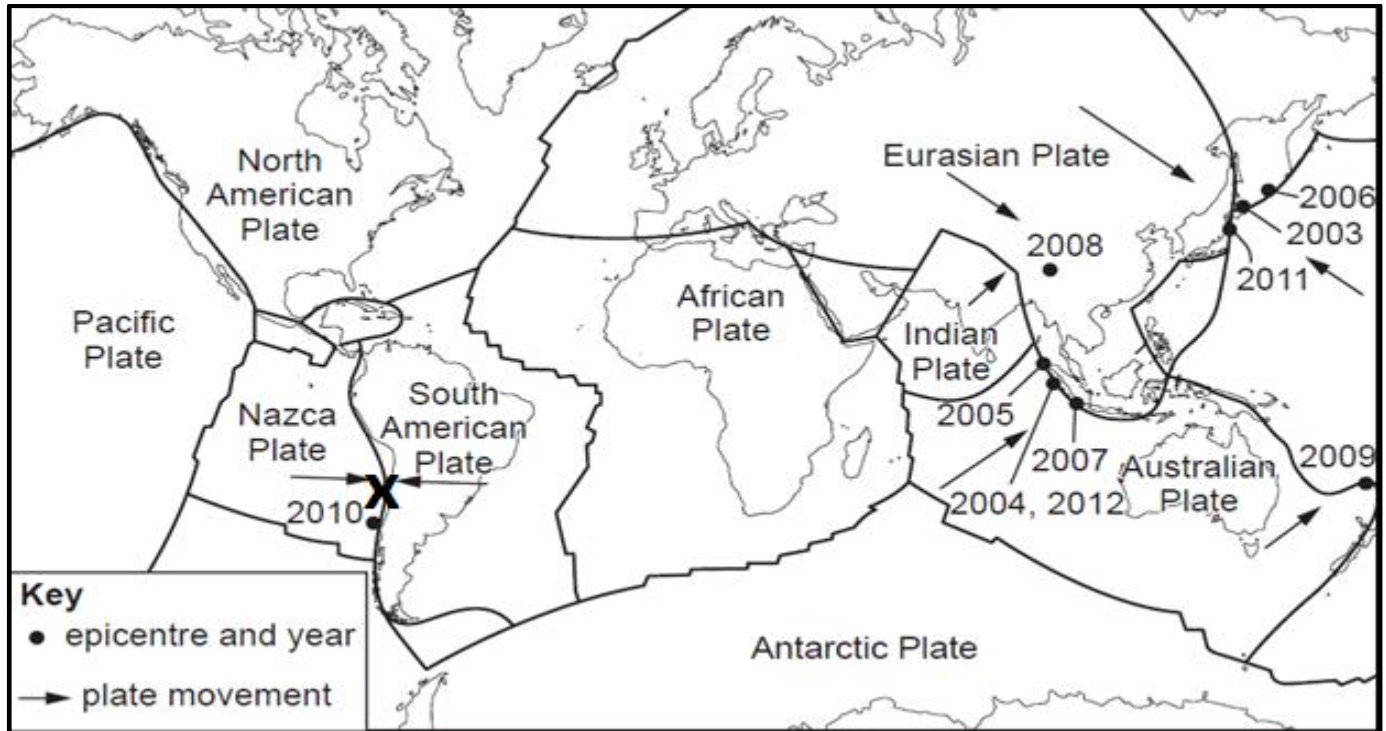
SECTION A: LIVING WITH NATURAL HAZARDS

Spend about 77 minutes in this section.

Question One: Distribution of Natural Hazards

Study **Figure 1** below and use the information in it to answer the questions that follow.

Figure 1: Location of powerful earthquakes, 2003 – 2012.



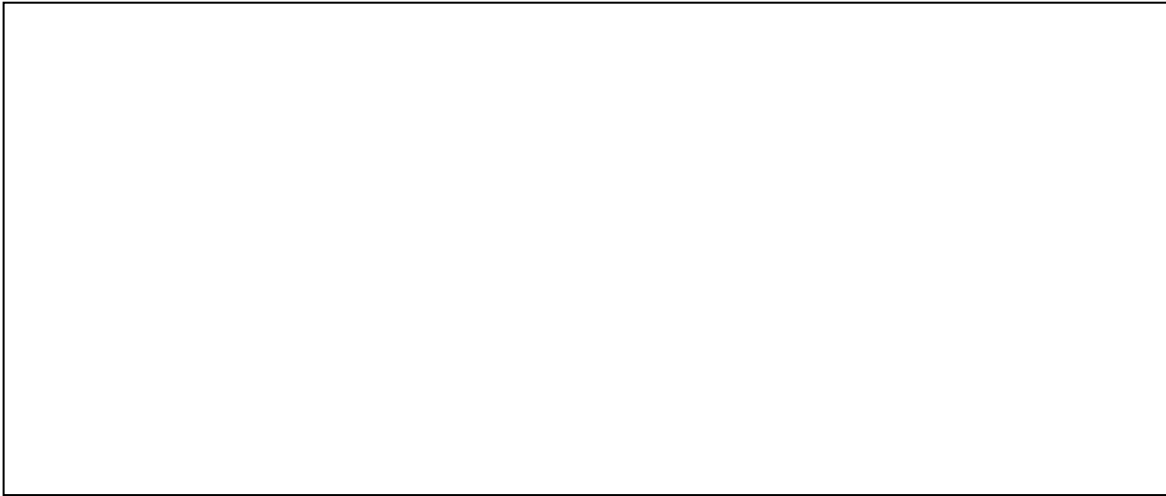
a. Define earthquake.

Skill level 1	
1	
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b. Identify the type of plate boundary at point **X** in **Figure 1**.

Skill level 1	
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- c. On the outline box below, draw and label a simple diagram to illustrate how the movement of the plates at **X** can cause an earthquake.



Skill level 2	
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- d. Describe the distribution and location of the powerful earthquakes shown in **Figure 1**.

Skill level 2	
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- b. Identify a weather condition that is the greatest hazard to people during a tropical cyclone as shown in **Figure 2**.

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- c. Describe the weather conditions during the eye of a tropical cyclone.

Skill level 2	
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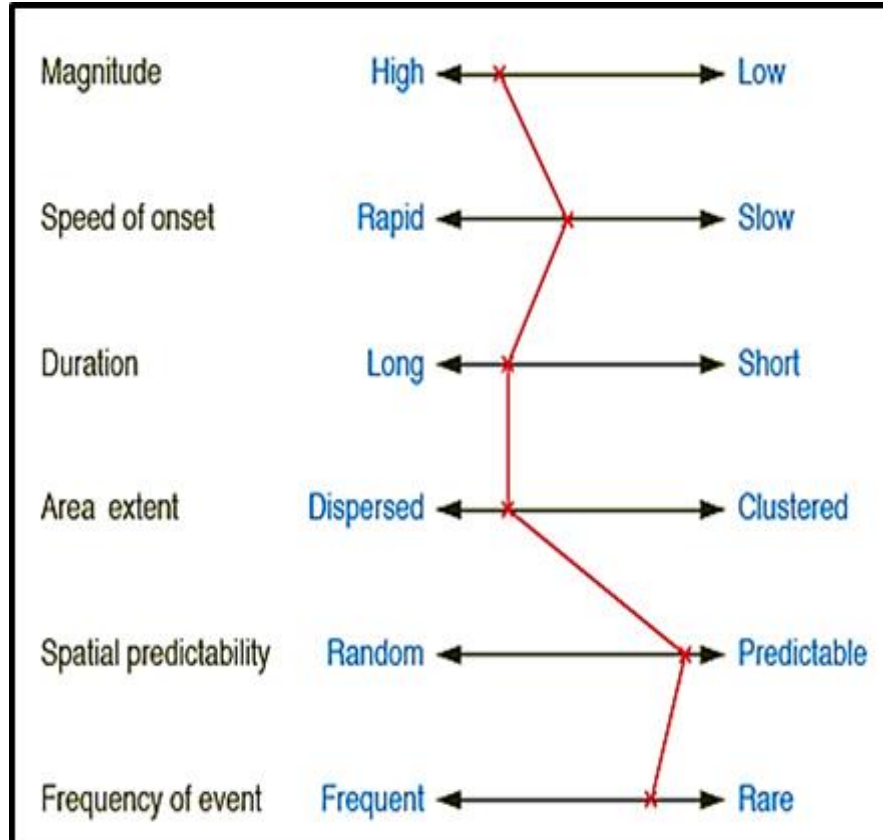
- d. Give a weather condition right after the eye of the tropical cyclone.

Skill level 1	
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Question Three: Effects of Natural Hazards

Study **Figure 3**, **Figure 4** and **Figure 5** below and use their information to answer the questions that follow.

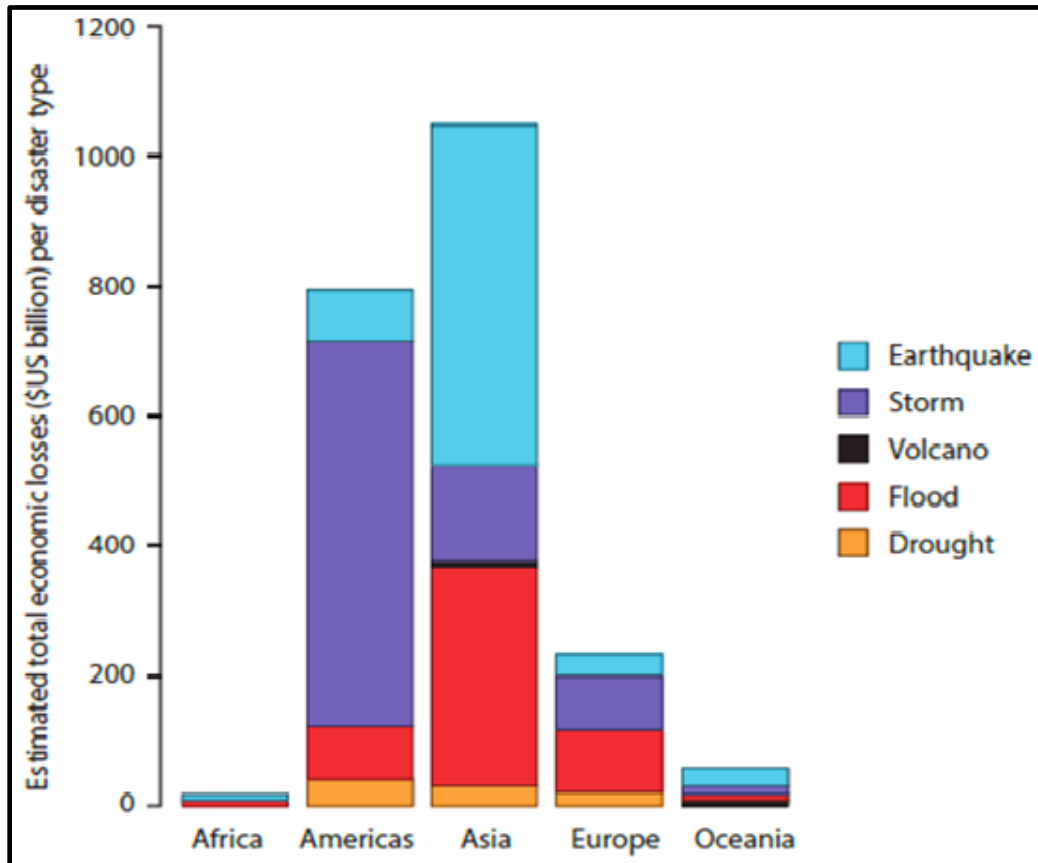
Figure 3: Hazard profile of a major volcanic eruption



- a. Discuss the effects of a volcanic eruption with the hazard profile above on people and their activities.

Skill level 3	
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Figure 4: Economic losses caused by natural disasters 1998 – 2012.



- b. Identify the **most common** natural disaster in **Figure 4**.

Skill level 1	
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- c. Explain why the scale of economic losses varies so much between continents.

Skill level 3	
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Figure 5: Impact of two earthquakes in April 2016.

	JAPAN (Asia)	ECUADOR (South America)
Magnitude	7.0	7.8
Deaths	40	661
Injuries	2021	6200
Buildings Destroyed	90	7000

- d. Compare the data on the two earthquakes in **Figure 5**.

Skill level 3	
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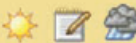
- e. Explain why Japan has a greater capacity to cope with disasters than Ecuador.

Skill level 4	
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Question Four: Planned Responses to Natural Hazards

Study **Figure 6** below and use the information in it to answer the following question.

Figure 6: Earthquake preparation

Steps for earthquake preparedness	
1	Identify potential hazards in your home and begin to fix them! 
2	Create a disaster preparedness plan. 
3	Prepare disaster supply kits. 
4	Identify your building's potential weaknesses and begin to fix them. 
5	Protecting yourself during earthquake shaking – drop, cover and hold on! 
6	After the earthquake, check for injuries and damage. 
7	When safe, continue to follow your disaster preparedness plan. 

Analyse clear planned responses to earthquakes and their implications.

[illegible]

Skill level 4	
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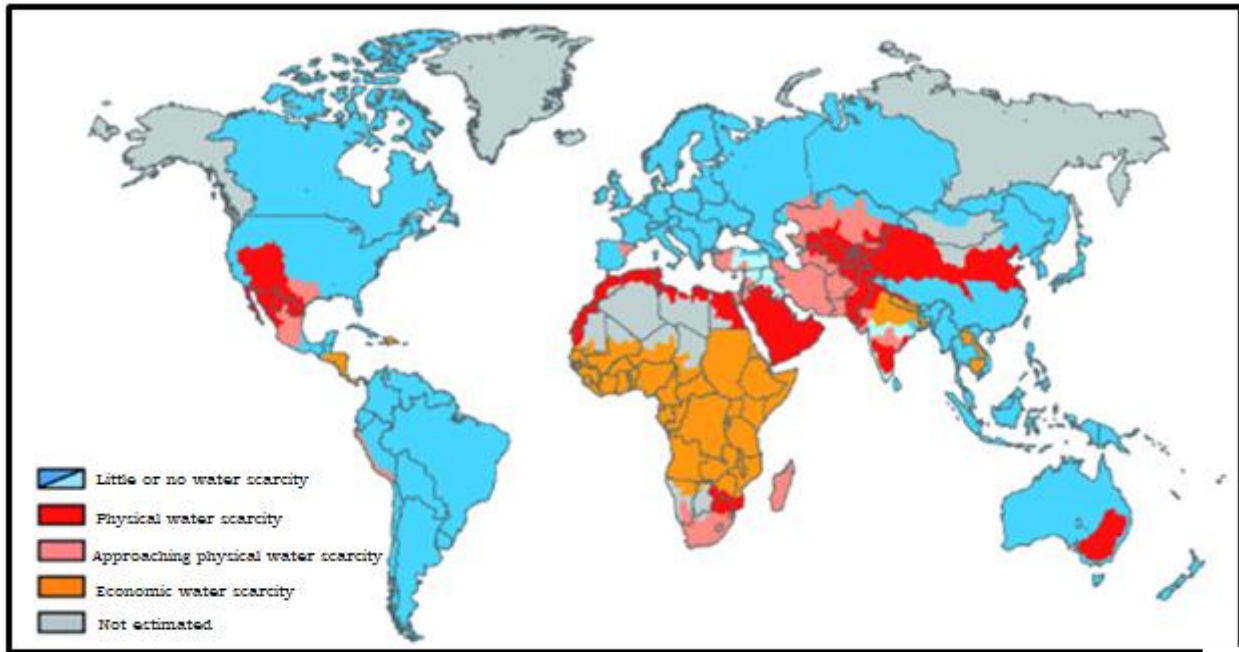
SECTION B: THE USE AND MANAGEMENT OF WATER RESOURCES

Spend about 36 minutes in this section.

Question One: Distribution of Water Resources

Use **Figure 7** and **Figure 8** and their information to answer the questions that follow.

Figure 7: Water scarcity areas, 2009



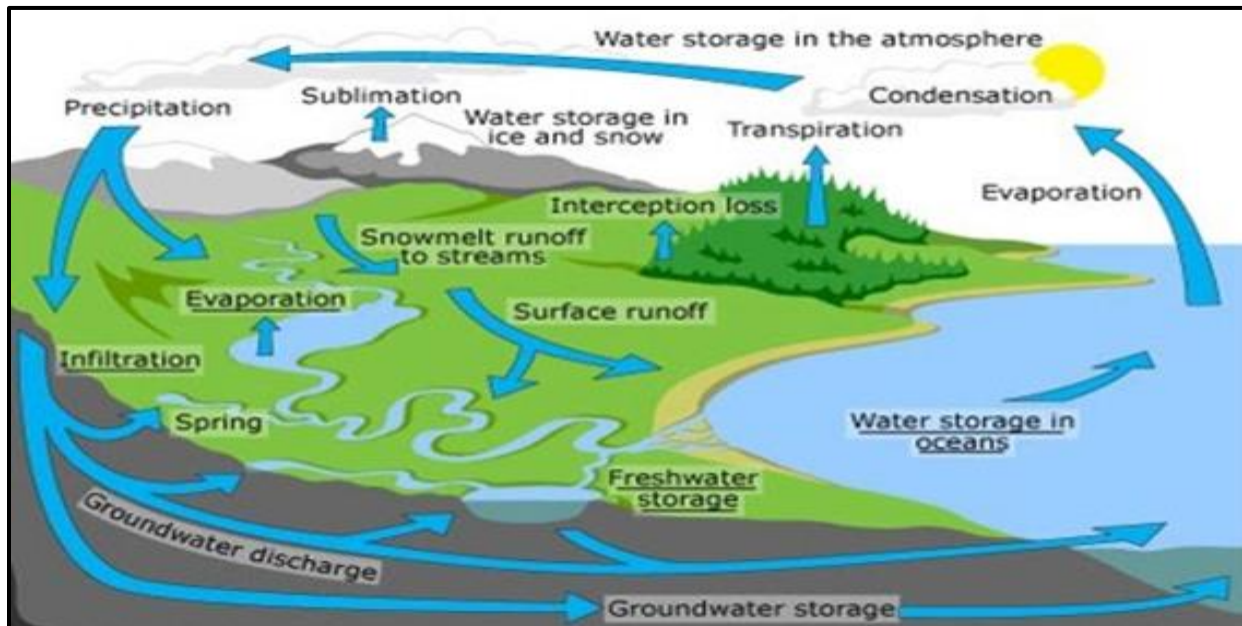
- a. Name a region of physical water scarcity shown in **Figure 7**.

- b. Explain the global location and distribution of water scarcity shown in **Figure 7**.

Skill level 1	
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Skill level 3	
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Figure 8: Hydrological Cycle



c. Define the hydrological cycle.

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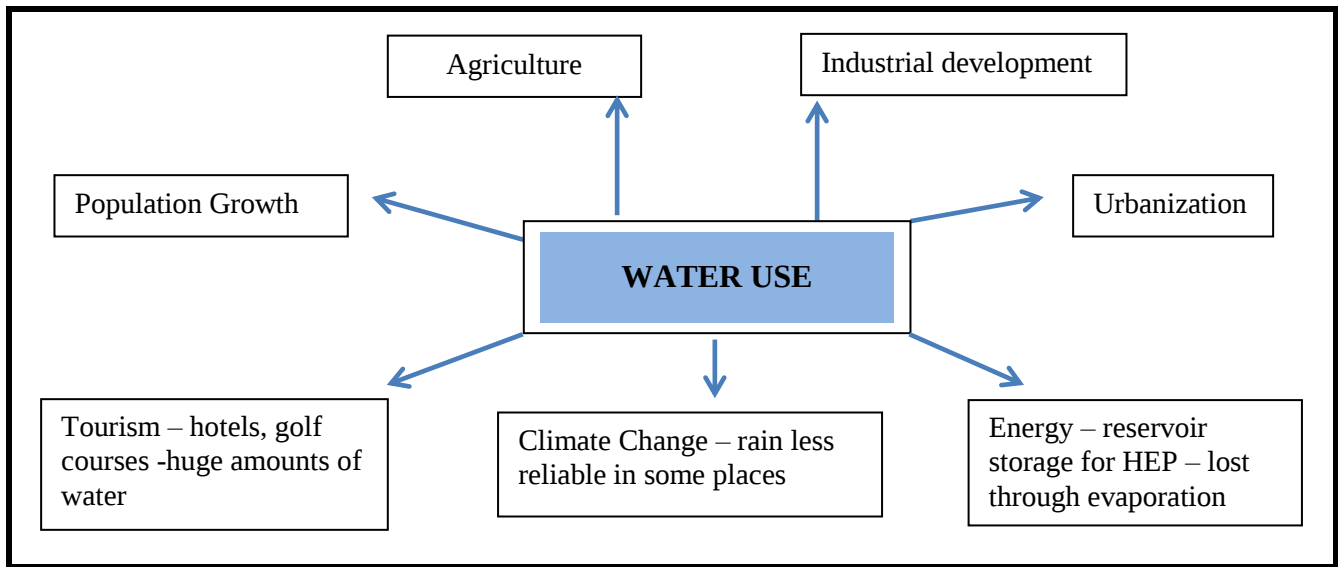
d. Describe the distribution of water resources within the hydrological cycle.

Skill level 2	
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Question Three: How Fresh Water Resources are used, and the Effects of this Utilization on People and the Environment.

Use **Figure 10** and the information in it to answer the questions that follow.

Figure 10: Water Usage



Skill level 1	
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- a. Identify an important use of water in agriculture.

- b. Explain how people's perception of water use changes over the years.

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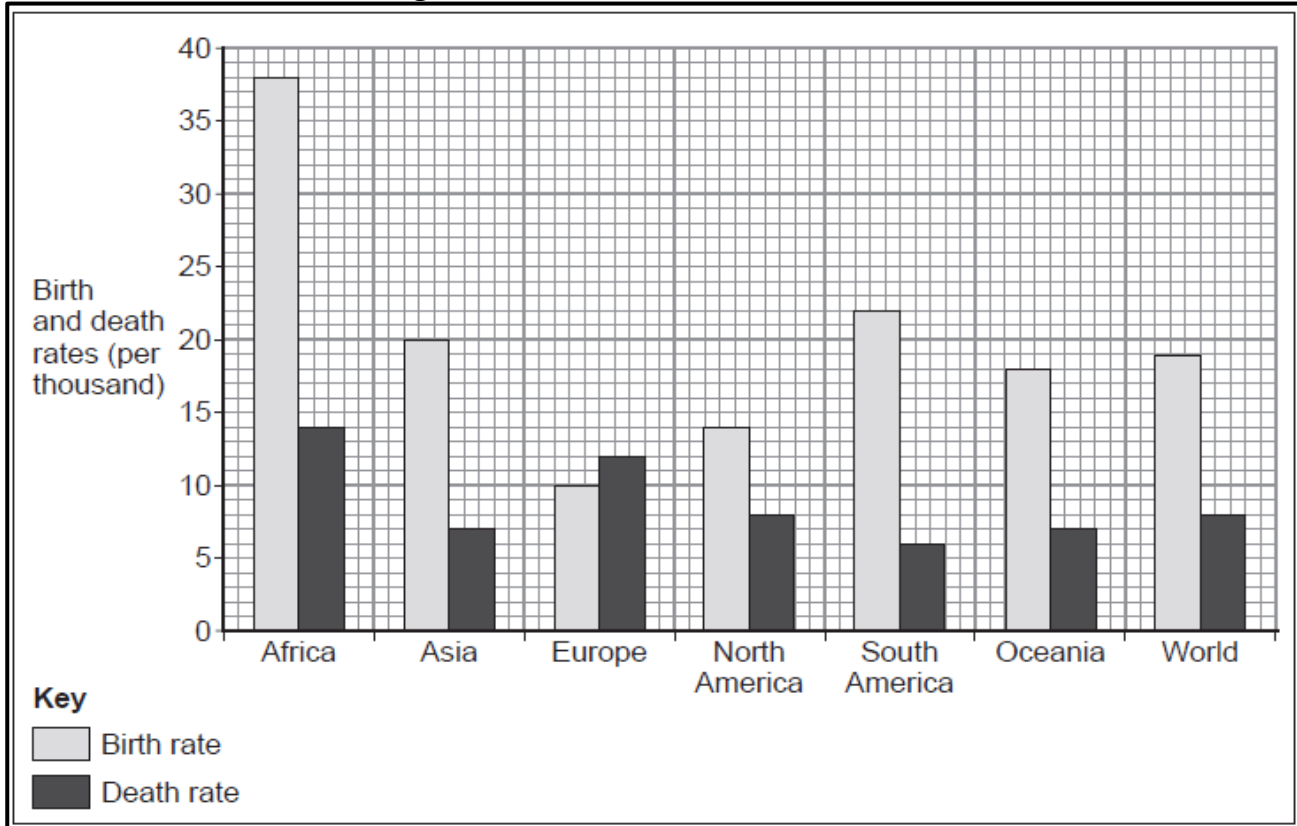
SECTION C: CONSEQUENCES OF POPULATION GROWTH

Spend about 15 minutes in this section.

Question One: Distribution of World Population

Study **Figure 11** and use it to answer the questions that follow.

Figure 11: Birth and Death rates, 2015.



- a. Name the continent where natural population decrease occurred.

Skill level 1	
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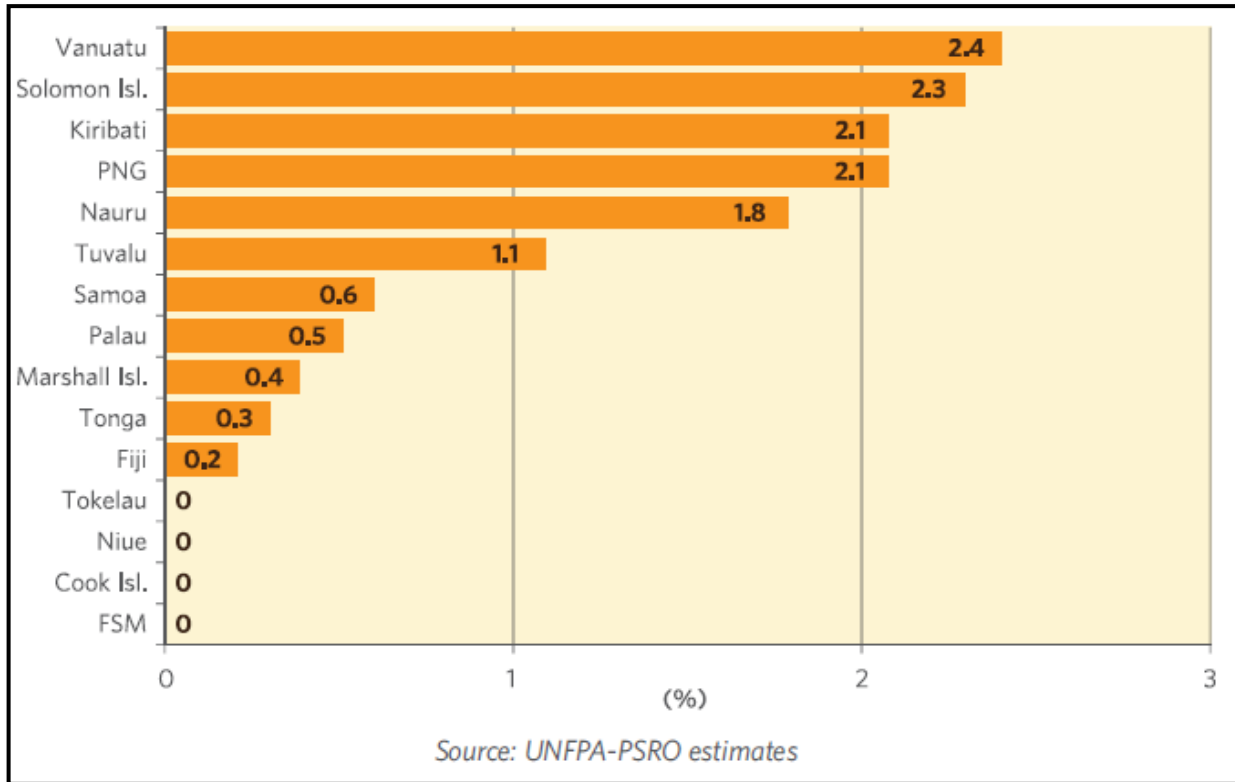
- b. Identify the continent where birthrates were twice the world average.

Skill level 1	
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Question Two: Nature of Population Growth

Study **Figure 12** and use it to answer the questions that follow.

Figure 12: Pacific Islands Annual Population Growth Rate (%), 2014.



- a. Define population growth rate.

Skill level 1	
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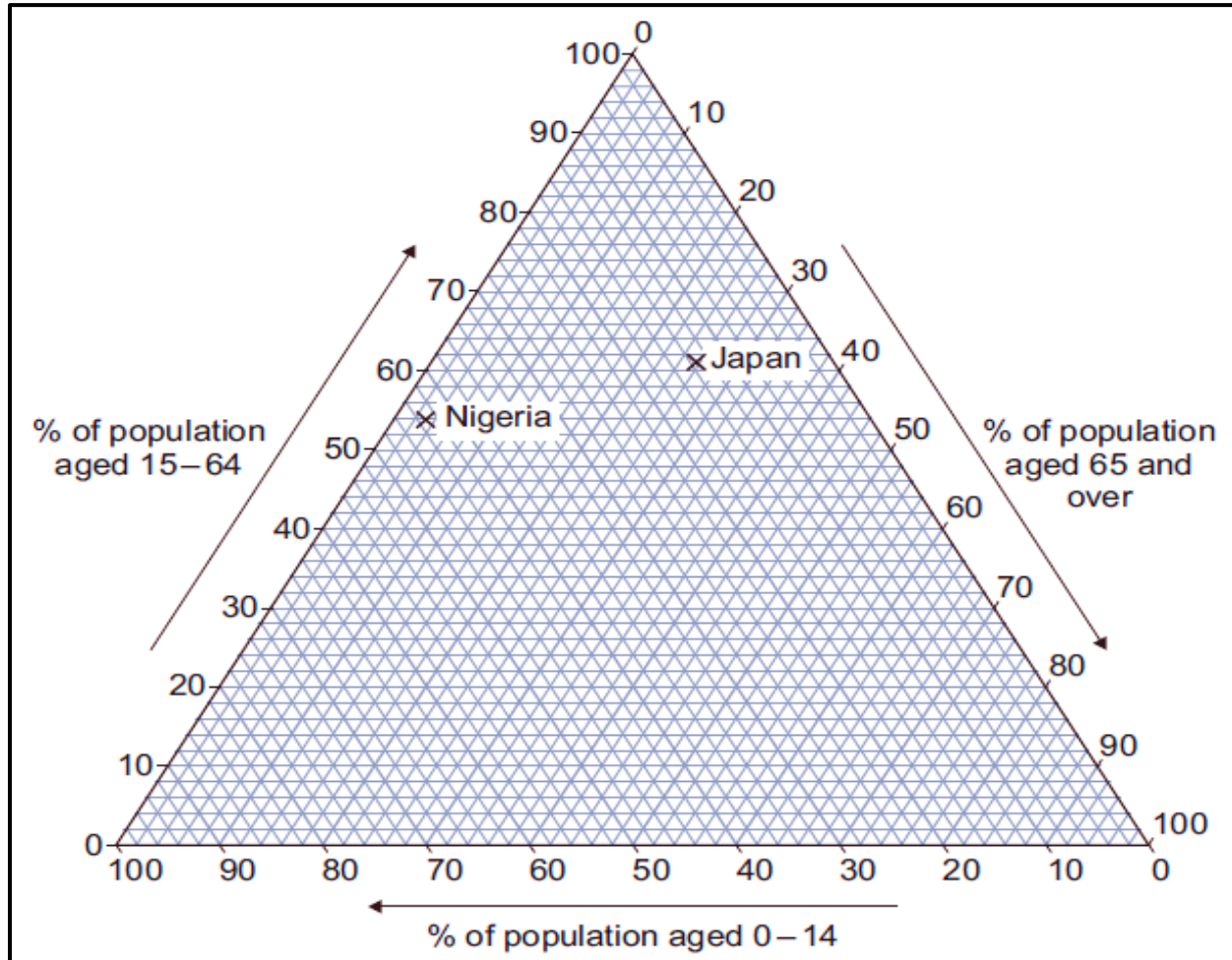
- b. Identify the pattern of population growth in the Pacific Islands as shown in **Figure 12**.

Skill level 1	
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Question Three: Factors that Influence Population Distribution, Density and Population Change.

Study **Figure 13** and use it to answer the questions that follow.

Figure 13: Population Structure for Japan and Nigeria in 2015.



- a. State the percentage of population aged 15 – 64 in Nigeria.

Skill level 1	
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- b. Name an economic situation that Japan is facing due to its population aged 65 and over.

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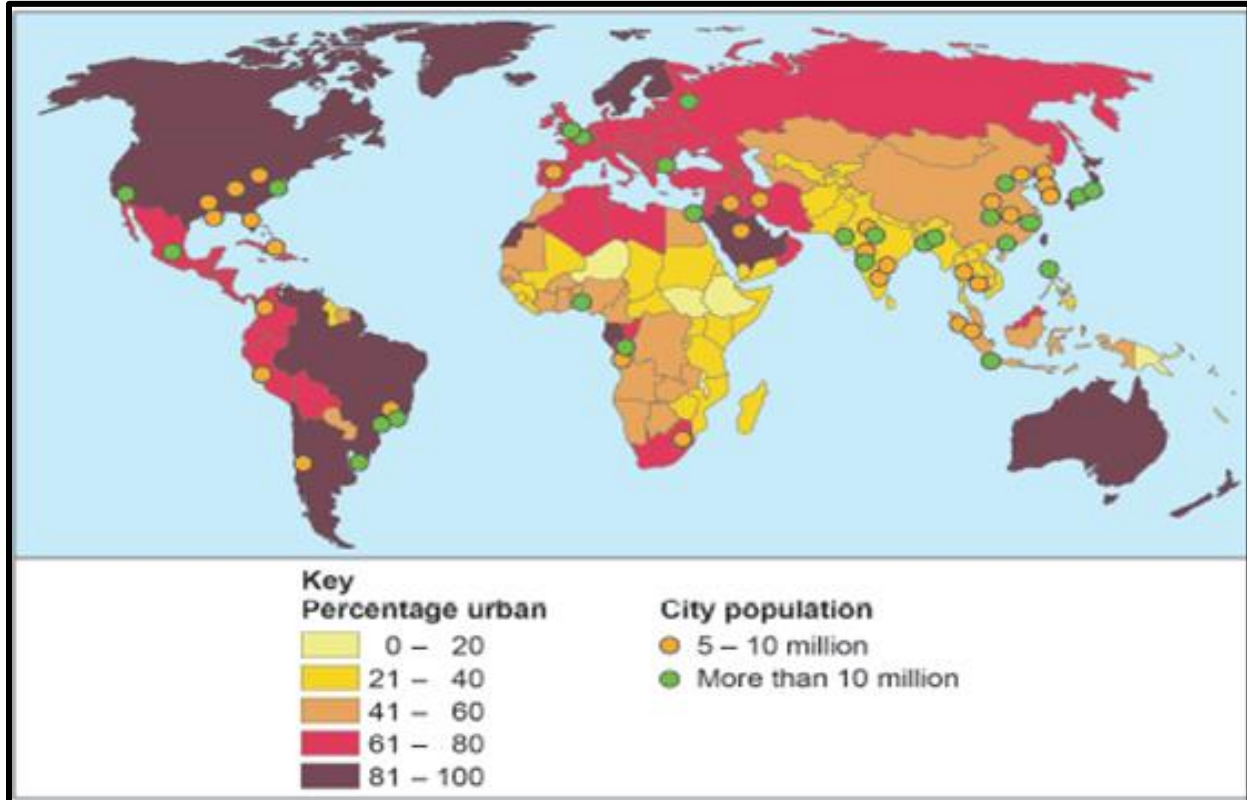
SECTION D: THE CHALLENGES OF URBANIZATION

Spend about 26 minutes in this section.

Question One: Nature and Global Patterns of Urbanization

Study **Figure 14** and use it to answer the questions that follow.

Figure 14: Urban Population (%) and World's Largest Cities in 2014.



- a. Define urbanization.

Skill level 1	
1	
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- b. Describe the global patterns of urbanization as shown in **Figure 14**.

Skill level 2	
2	
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Question Two: Factors and Processes that Produce Urbanization

Study **Figure 15** and **Figure 16** and use them to answer the questions that follow.

Figure 15: Rural village in France, 2016.



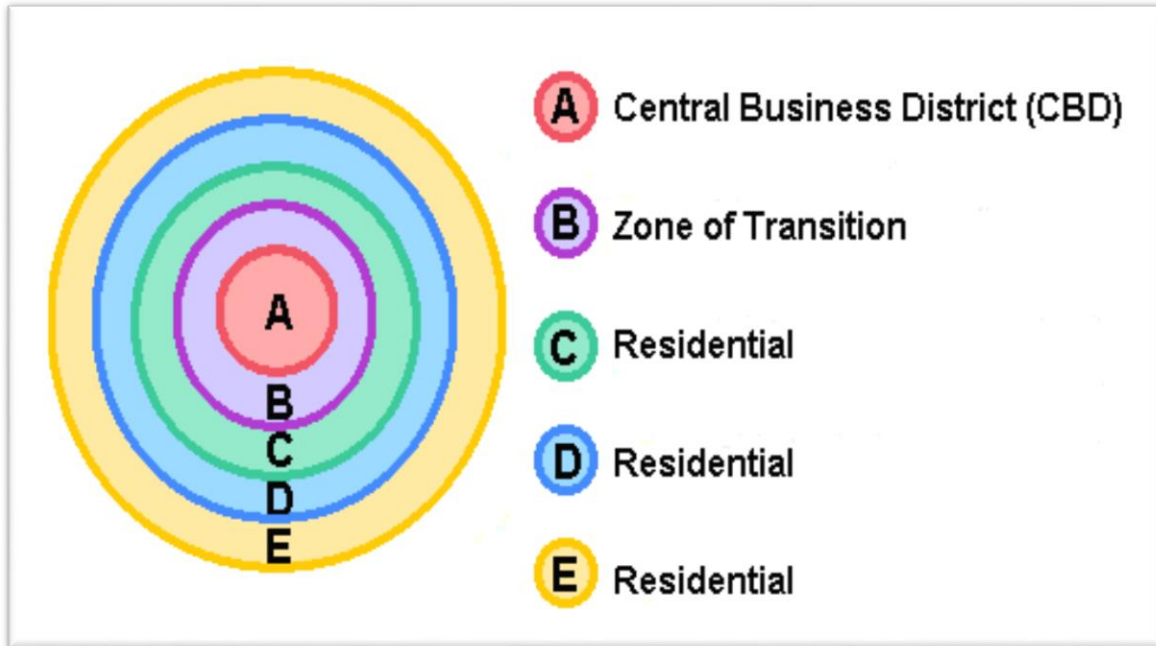
- a. Identify **ONE** (1) piece of evidence from the photo that shows rural to urban migration is happening in the village.

Skill level 1	
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Question Three: Effects of Urban Growth

Study **Figure 17** and use it to answer the questions that follow.

Figure 17: Urban Land Use Zone Model



- a. Name the model of urban land use zone shown in **Figure 17**.

Skill level 1	
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- b. Identify the type of residence in Zone E as shown in **Figure 17**.

Skill level 1	
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SECTION E: GEOGRAPHIC PERSPECTIVES ON TOURISM

Spend about 26 minutes in this section.

Question One: Factors that Influence the Growth of Tourism

Study **Figure 18** and **Figure 19** and use them to answer the questions that follow.

Figure 18: Why Tourism Matters



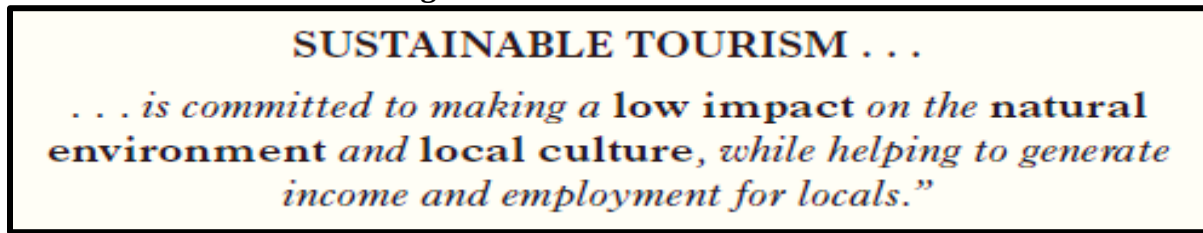
- a. Define the term tourism.

Skill level 1	
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- b. Explain the influence of tourism worldwide as shown in **Figure 18**.

Skill level 3	
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Figure 19: Sustainable Tourism



- c. Circle the letter of the **BEST** choice of the tourist activity that fits the description of sustainable tourism above.

TOURIST ACTIVITY		CHOICE
Environment	Leave lights and air conditioning on in the hotel when out.	A
Trips	Explore the local areas using local transport.	B
Customs	Buy fake imported designer goods.	C
Wildlife	Collects sea shells as souvenir and bury litter on the beach	D

Skill level 1	
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Question Two: Effects of Tourism on People.

Study **Figure 20** and **Figure 21** and use them to answer the questions that follow.

Figure 20: Dress Code in Qatar, Middle East.



- a. Describe the socio-cultural effects of tourism on the local people as shown in **Figure 20**.

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