

MARKER CODE				



Student Enrolment Number									

TONGA FORM SIX CERTIFICATES

2016

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. Answer **ALL QUESTIONS**. Write your answers in the spaces provided in this booklet.

Sections/Topics	Time(mins)	Total
Section A: Living with Natural Hazards	36 minutes	20
Section B: Use and Management of Water Resources	36 minutes	20
Section C: Consequences of Population Growth	36 minutes	20
Section D: The Challenge of Urbanization and Urban Environment.	36 minutes	20
Section E: Geographic Perspectives on Tourism	36 minutes	20

3. Check that this booklet contains pages 2-31 in the correct order and that none of these pages is blank.
4. Illustrate your answers with relevant maps and diagrams. You will need an accurate ruler and you may use a calculator if you wish.
5. In addition to this booklet, you should also receive a **Resource Booklet (Sheet No. 6/2) a TOPOGRAPHICAL MAP OF MANLY REGION NSW, AUSTRALIA.**

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

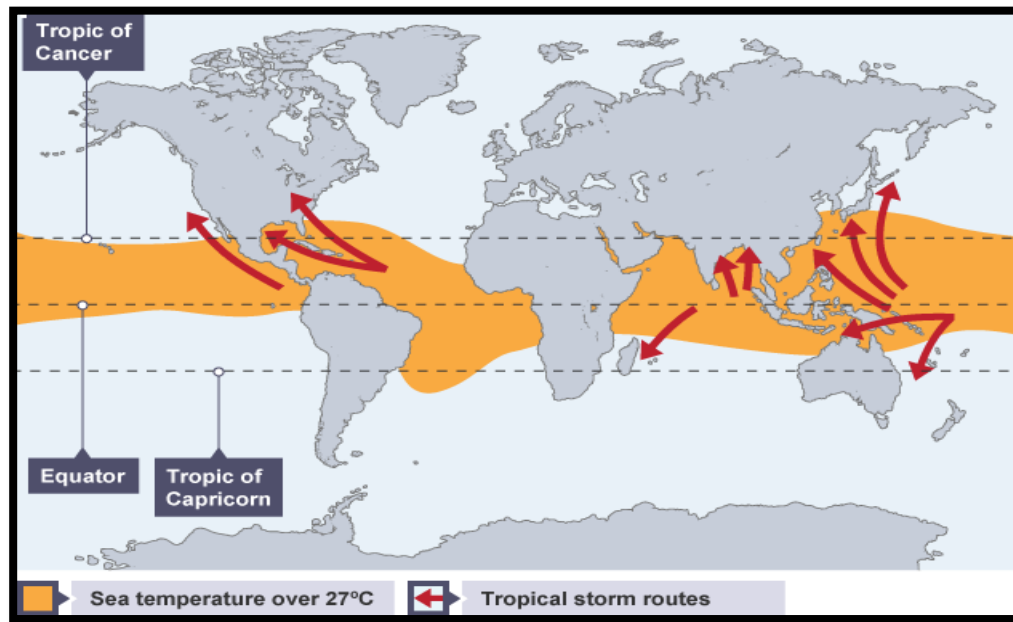
SECTION A: LIVING WITH NATURAL HAZARDS

Spend about 36 minutes answering this section.

Question 1: DISTRIBUTION AND FACTORS OF NATURAL HAZARDS

Study the world map (**Figure 1**) and use information from it to answer the questions that follow.

Figure 1



- a. Name the direction of the Tropical storm routes at the southern hemisphere.

- b. Describe the distribution of the main areas experiencing tropical cyclones.

Skill level 1	
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- c. Explain **TWO** (2) factors that contribute to the development of tropical cyclones in these areas.

i. _____

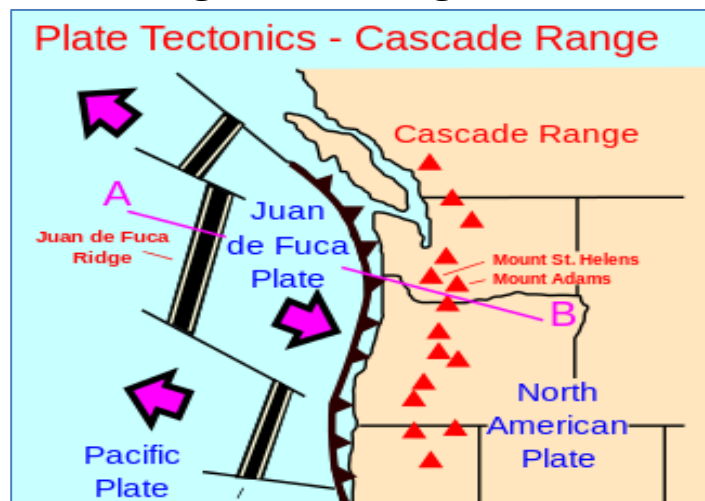
ii. _____

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Question 2: PROCESSES OF NATURAL HAZARDS

Figure 2 shows the Plate Tectonics along Cascade Range. Study **Figure 2** then answer the questions that follow.

Figure 2 : Plate Tectonics along Cascade Range



- a. Juan de Fuca ridge is an example of what type of plate boundary?.

Skill level 1	
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- b. Draw a simple cross section diagram to show the main tectonic process occurring at this area through **Line AB** that explains the formation of the Cascade Range volcanoes. Label your diagram accordingly.



Skill level 2	
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Question 3: VOLCANIC EFFECTS ON PEOPLE AND THEIR ENVIRONMENT

Study the photographs in **Figure 3** below, and answer the questions that follow.

Figure 3 : Photographs from the Chile's Calbuco Volcano Eruption, April 28th ,2015.



- a. Using the photographs above to help you, evaluate **ONE** (1) immediate impact and **ONE** (1) long-term effect of the April 28th 2015 eruption on environment and people of Calbuco, Chile.

- i. Immediate Impact

Skill level 2	
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ii. Long-Term Impact:

	Skill level 2	
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Question 4: PLANNED RESPONSES & THEIR IMPLICATIONS

With reference to named examples, write paragraphs to:

- i. Discuss **TWO** (2) planned responses for reducing negative effects of tropical cyclones.
- ii. Evaluate the effectiveness of these two planned responses.

- i. Discuss **TWO** (2) planned responses for reducing the negative effects of tropical cyclones.

[illegible]

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- ii. Evaluate the effectiveness of the **TWO** (2) planned responses discussed above.

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SECTION B: THE USE AND MANAGEMENT OF WATER RESOURCES

Spend about 36 minutes answering this section.

Question 1: NATURE AND GLOBAL DISTRIBUTION OF WATER RESOURCES

Study **Figure 4** and **Figure 5** then answer the questions that follow.

Figure 4 : Global Water Resource

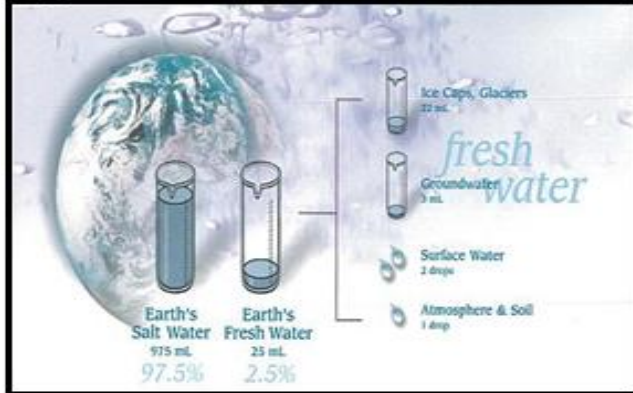


Figure 5 : World Water Scarcity Map



- a. Describe the message about the global water resources shown by **Figure 4** above.

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- b. On the World map (**Figure 5**) above, locate and name **ONE** (1) area or region of water surplus.

Skill level 1	
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- c. Describe **TWO** (2) global patterns of water distribution shown by **Figure 5**.

i) _____

Skill level 2	
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ii) _____

- d. Explain **TWO** (2) natural factors that cause some parts of the world to have water scarcity while others have surplus water resources.

i. _____

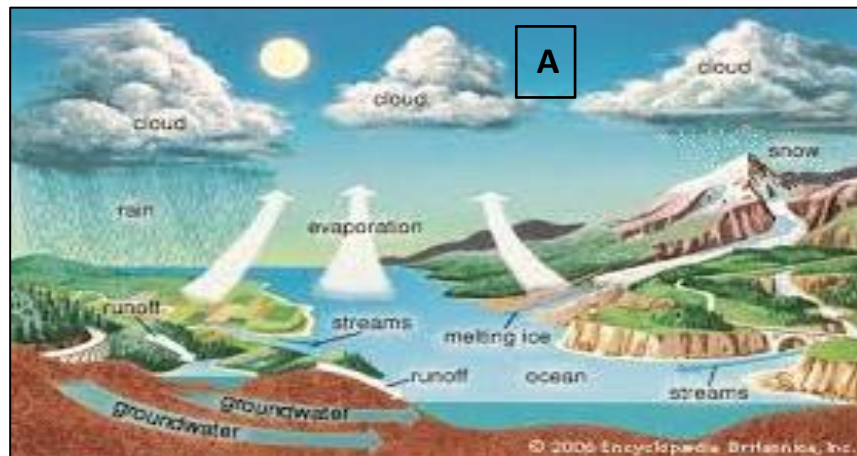
ii. _____

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Question 2: PROCESSES THAT AFFECT THE GLOBAL DISTRIBUTION OF WATER RESOURCES

Study **Figure 6** then answer the questions that follow.

Figure 6: Title : _____



Skill level 1	
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- a. State an appropriate title for **Figure 6** in the space above.
- b. Name **ONE** (1) process occurring at the level labelled **A** in **Figure 6** above.

Skill level 1	
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- i. Discuss **TWO** (2) major forms of water use in the Pacific islands.
- ii. Evaluate the effects of these **TWO** (2) forms of water use discussed above on the Pacific people and their environment.

-
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- ii. Evaluate the effects of these **TWO** (2) forms of water use discussed above on the Pacific people and their environment.

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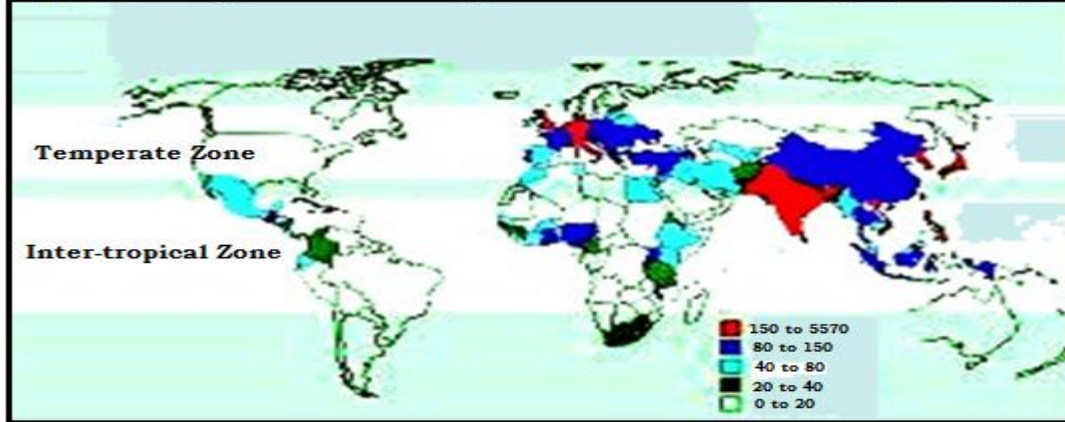
SECTION C: CONSEQUENCES OF POPULATION GROWTH

Spend about 36 minutes answering this section.

Question 1: NATURE AND DISTRIBUTION OF POPULATION GROWTH

Study **Figure 8** and **Figure 9** then answer the questions that follow.

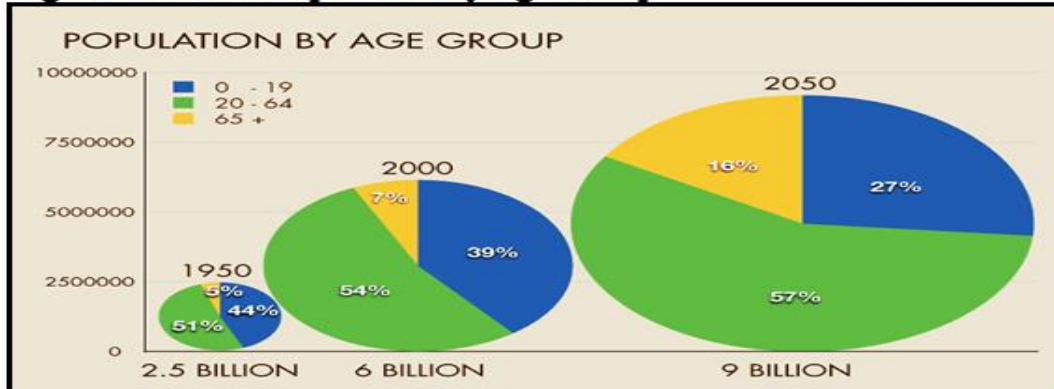
Figure 8 : Population density for World Countries (people per sq.km)



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Skill level 1	
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Figure 9 : World Population by Age-Group



- On the world map above, locate and name:
 - ONE** country with high population density.
 - ONE** country with sparse population density.
- State **ONE** (1) example of physical factors that influence world's population distribution and density.

Example: _____

Skill level 1	
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- Identify the age group that is projected to make the greatest percentage of population growth by 2050.

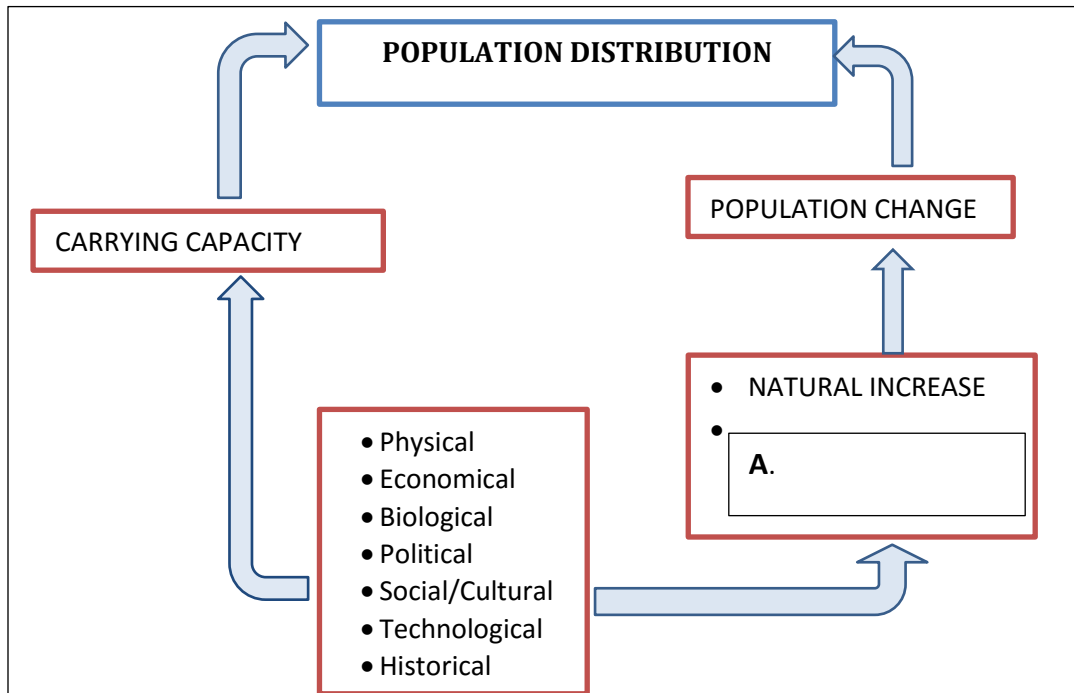
Age Group: _____

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Question 3: FACTORS THAT INFLUENCE POPULATION DISTRIBUTION AND POPULATION GROWTH

Figure 11: Factors affecting the Distribution of Population.



- a. Complete the flow diagram above by naming **A**, **ONE** other factor that controls population change.
- b. Describe **ONE** (1) way how Technological factor influence population distribution.

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Question 4: EFFECTS OF POPULATION CHANGE AND THEIR IMPLICATIONS

Study **Figure 12**, then answer the questions that follow.

FIGURE 12: POPULATION GROWTH FLOW DIAGRAM



- a. State **ONE** (1) example of environmental destruction as a result of high population growth.

Skill level 1	
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- b. Describe **TWO** (2) social consequences of population growth on people.

i. _____

ii. _____

Skill level 2	
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- i. Discuss **TWO** (2) planned responses to population change and its effects
- ii. Evaluate the effectiveness of these **TWO** (2) planned responses discussed above.

- [illegible]

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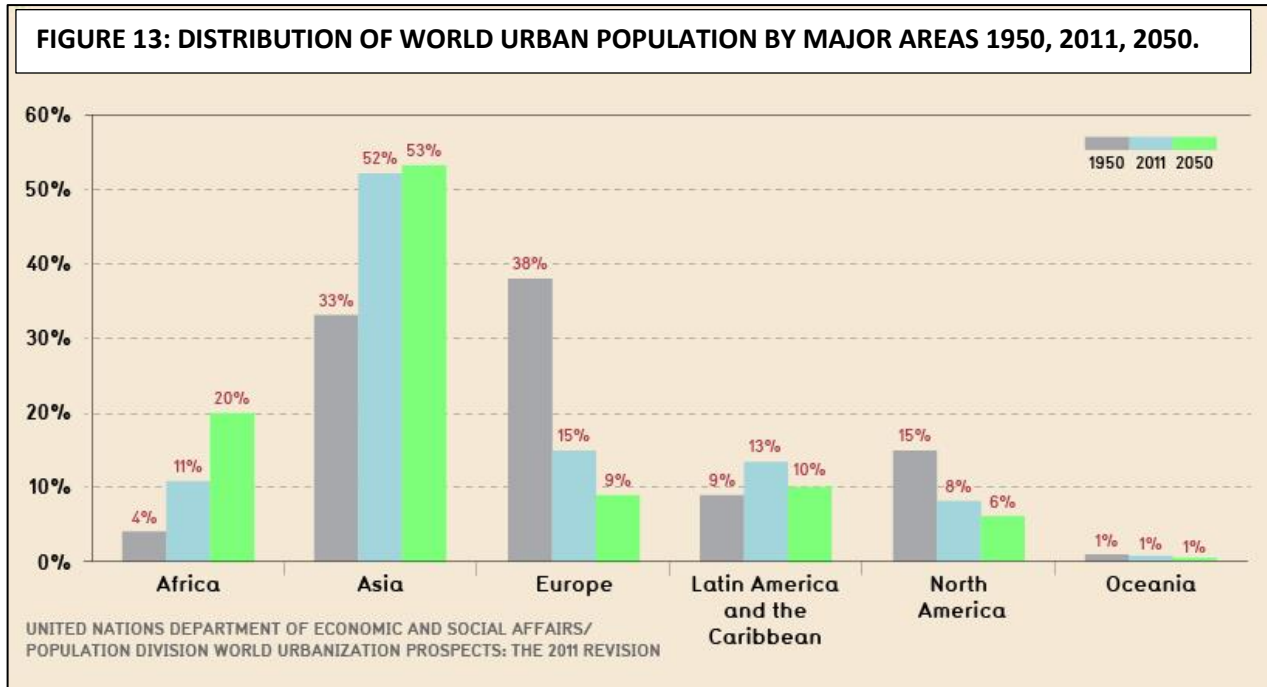
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SECTION D: THE CHALLENGES OF URBANIZATION

Spend about 36 minutes answering this section.

Question 1: NATURE AND DISTRIBUTION OF POPULATION GROWTH

Study **Figure 13**, then answer the questions that follow.



- a. Name the region projected to make the greatest growth with its urban population between 2011 and 2050.

Region: _____

- b. With examples from **Figure 13** above, describe **ONE** (1) of the global patterns of urbanization.

Skill level 1	
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Question 2: FACTORS AND PROCESSES OF URBANISATION

Study **Figure 14** then answer the questions that follow.

Figure 14: CONVERGENT URBAN GROWTH PATTERN



- a. Suggest **ONE** (1) 'push' factor that caused these people labelled A in the cartoon (**Figure 14**), to move to the city.

Skill level 1	
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- b. Use evidence from the **Figure 14** to describe the process of urbanization showed by the cartoonist.

Skill level 2	
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Question 3: EFFECTS OF URBAN GROWTH

Study **Figure 15** and **Figure 16**, then answer the questions that follow.

Figure 15 : THIRD WORLD CITIES



- a. State the main urban land use shown by letter **A** at Sao Paulo city.

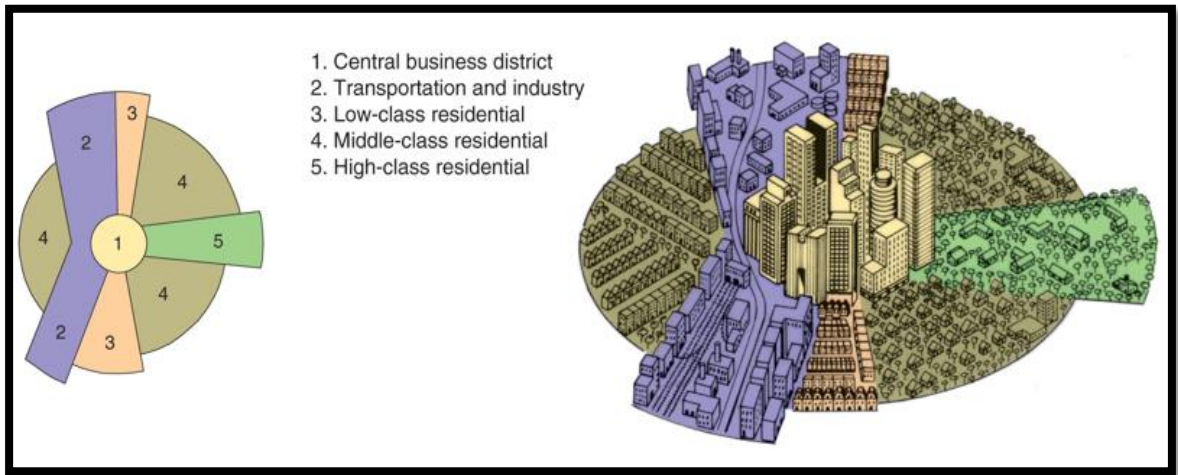
Skill level 1	
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- b. Name this type of urban settlement found at Mumbai city.

Skill level 1	
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- c. Identify from the photographs (**Figure 15**) **ONE** (1) common effect of rapid urban growth shared by these two third world cities above.

Skill level 1	
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Figure 16: URBAN GROWTH MODEL

d. Name the urban growth model shown by **Figure 16** above.

e. Analyze the urban zones of this urban growth model above.

Skill level 1	
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Skill level 3	
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- i. Explain **THREE** planned responses for managing urban growth.
- ii. Evaluate the effectiveness of these **THREE** planned responses.

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Skill level 3	
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- ii. Evaluate the **effectiveness** of these **THREE** (3) planned responses.

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Question 2: TOURISM GROWTH

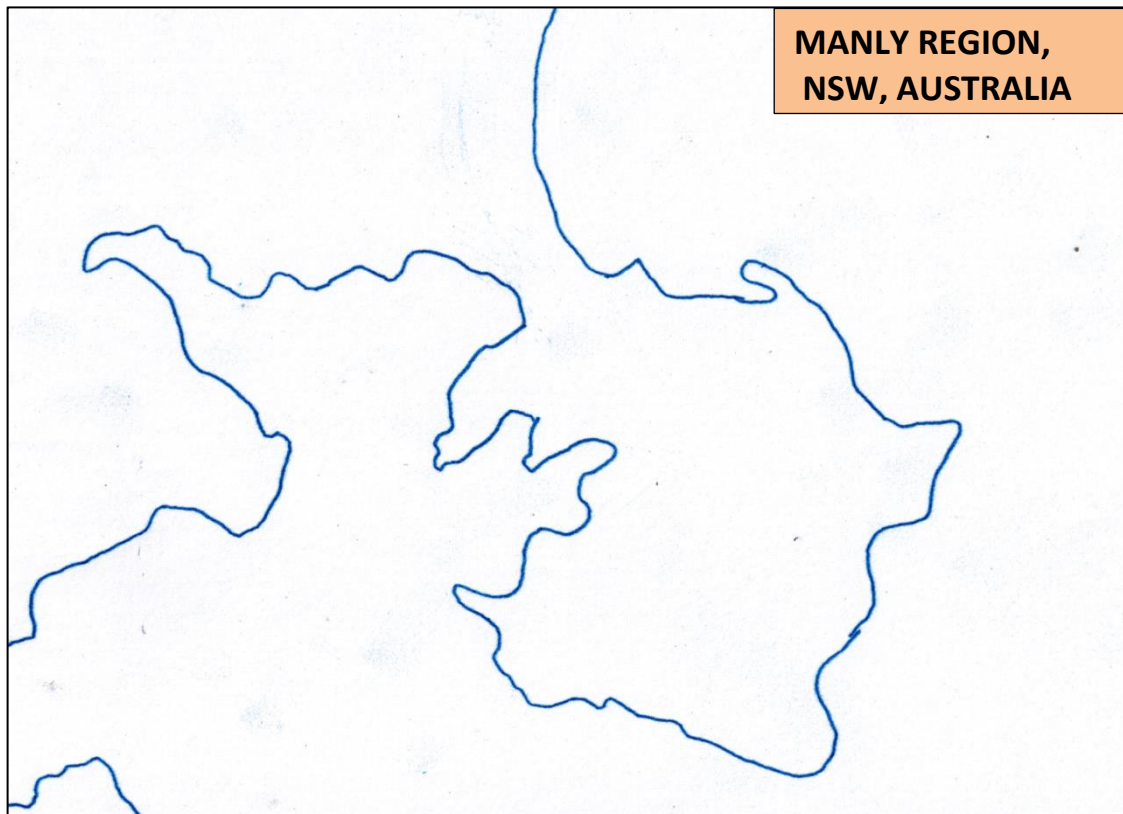
Use the **Topographic Map of Manly Region NSW, Australia (Sheet No 6/2)** to answer the questions that follow.

- a. On the outline map of Manly Region, NSW Australia given below, locate the features listed below that encourage tourism activities in the region:

- i. Manly Long Beach
- ii. Manly Harbour

Complete the Key accordingly.

Skill level 1	
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Skill level 1	
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KEY :

- b. Give evidence from the topographic map of Manly Region of a natural attraction for tourists but at the same time benefits the natural environment of Manly region.

Skill level 1	
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Question 3: EFFECTS OF TOURISM ON PEOPLE AND THEIR ENVIRONMENT

Study **Figure 18** below, and then answer the questions that follow.

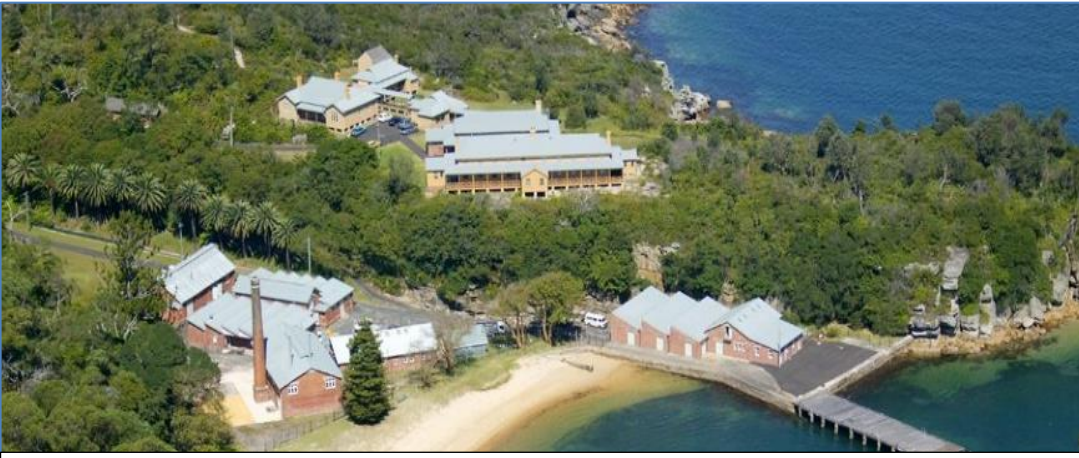


FIGURE 18: Q STATION, MANLY: RELAX REJUVENATE BE INSPIRED

Host an international meeting, function or conference in a creatively inspiring and truly unique environment.

Each venue includes: high speed internet/ whiteboards and projector screens/ all audio visual needs/ on-site accommodation (private rooms)

- a. Describe **ONE** (1) economic benefit that Q Station provides for the local people of Manly Region.

Skill level 2	
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- b. Explain **ONE** (1) environmental disadvantage of constructing the Q Station at this area.

Skill level 2	
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- ii. Evaluate **TWO** (2) socio and cultural drawbacks brought by tourism growth to small Developing countries.

[illegible]

Skill level 3	
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