

MARKER CODE



Student Personal Identification Number

# Solomon Islands National Form Six School Certificate

## GEOGRAPHY

### 2017

## QUESTION AND ANSWER BOOKLET

Time allowed: Three (3) hours + 10 minutes reading time

### INSTRUCTIONS

1. Answer ALL questions using the space provided in the booklet.
2. This paper contains FIVE sections. Each section is worth 20 marks.

Section A: Living with Natural Hazards	35 minutes
Section B: Use and Management of Water Resources	35 minutes
Section C: Consequences of Population Growth	40 minutes
Section D: The challenges of Urbanisation and Urban Environment	35 minutes
Section E: Geographic Perspectives on Tourism	35 minutes
3. Illustrate your answers with relevant maps and diagrams. You will need an accurate ruler and you may use a calculator if you wish
4. Write your **Student Personal Identification Number (SPIN)** in the space provided above and on the fold-out flap at the back
5. Additional sheets of paper can be obtained from your supervisor if necessary. Write your student Personal Identification Number (SPIN) on each additional sheet, number the questions clearly and insert them in the appropriate part of your booklet and tie securely
6. Check that this booklet contains pages **2-25** in the correct order and that none of these pages is blank.

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

TOTAL MARKS

100

**SECTION A: LIVING WITH NATURAL HAZARDS (20 MARKS)**

**Part A: Tropical Cyclone, Formation And Characteristics**

1. Define the term Tropical Cyclone

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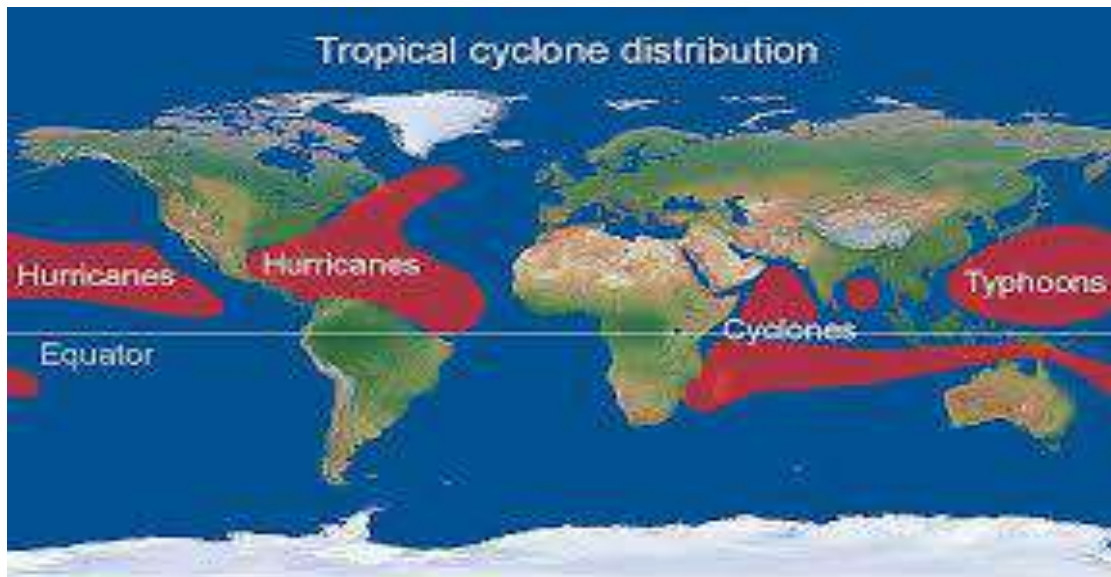
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(1 mark)

**Study figure 1 below and answer question 2.**

Figure 1: Tropical Cyclone distribution.



Source: [www.tropical.com](http://www.tropical.com)

2. Name a region experiencing tropical cyclone. Refer to the above map.

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(1 mark)

**Study Figure 2 below and answer question 3.**

Figure 2. Diagram of a tropical cyclone



3. Describe **ONE** important ingredient needed for the formation of the natural hazard in Figure 2 above.

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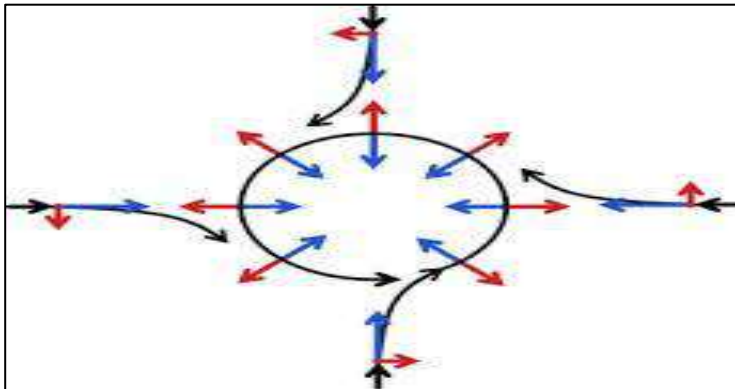
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(2 marks)

4. **The diagram below shows a Coriolis Effect during a tropical cyclone.**

Figure 3: Coriolis Force.



Which direction does the wind in the southern hemisphere is deflected to as shown in the diagram above.

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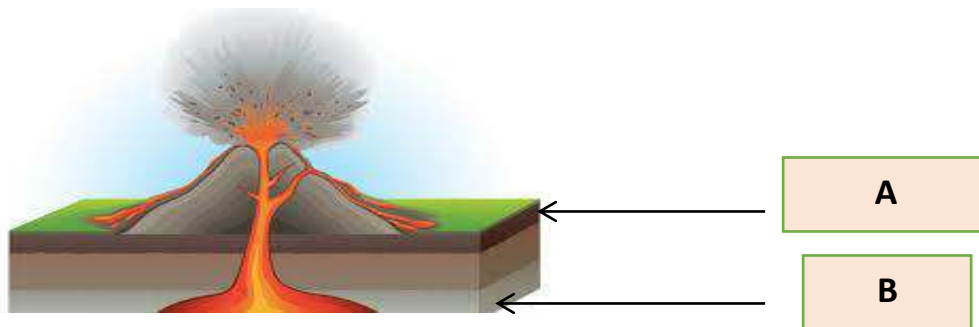
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(1 mark)

**Part B: Natural Hazard Structure and Processes.**

**Study the cross section of a Volcano on figure 4 below and answer questions that follow.**

Figure 4: Cross section of Volcano.



1. Explain the process that occur at the Part labelled "B" which resulted in the above activity.

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(2 marks)

2. Describe how a Volcano is formed at the Convergent plate boundary.  
Draw a simple diagram to show the processes at the destructive plate boundary.  
Use geographic terms in description and labeling. (Not drawn to scale).

(3 marks)





**SECTION B: USE AND MANAGEMENT OF WATER RESOURCES**

**(20 MARKS)**

**YOU ARE ADVISED TO SPENT 35 MINUTES ANSWERING THOSE SECTION**

**Part A: Nature and Global Distribution of Water.**

1. Define 'water scarcity'

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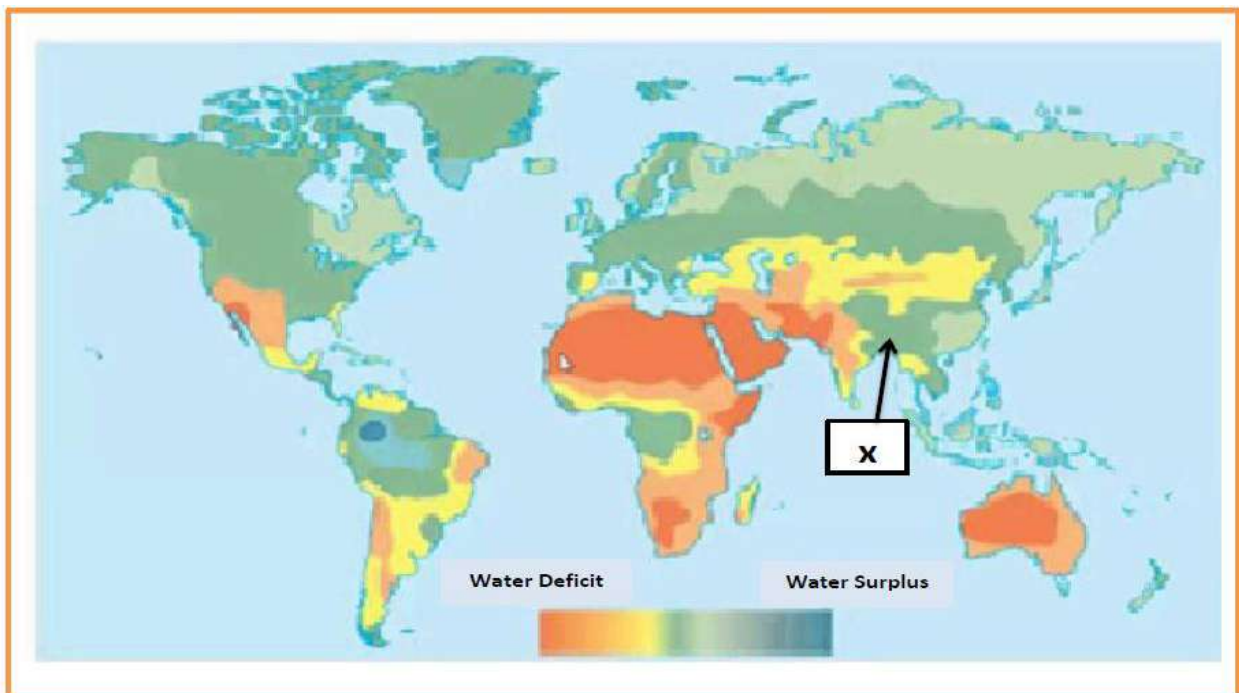
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(1 mark)

**Study figure 5 below and answer question 2.**

**Figure 5: Water Surplus and Deficit.**



2. Explain why water is surplus in the region marked "X".

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(2 marks)

**Part B: Hydrological Processes.**

1. Draw a simple water cycle to show its features and the movement of water in the cycle.



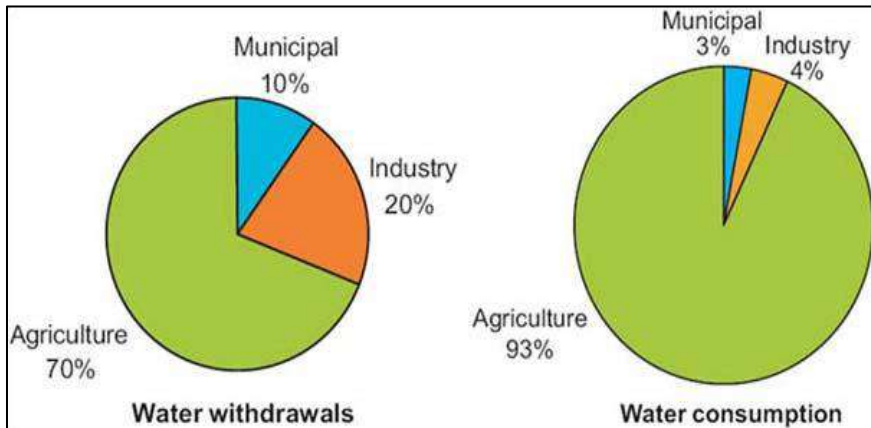
(4 marks)



**Part C: Water Uses**

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

**Figure 6: Water withdrawals and consumption by sectors.**



1. Name the sector that withdraws one fifth of water and consumed less of it. State a reason for this variation.

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(2 marks)

2. State ONE reason why agricultural used large amount of water as indicated in Figure 6.

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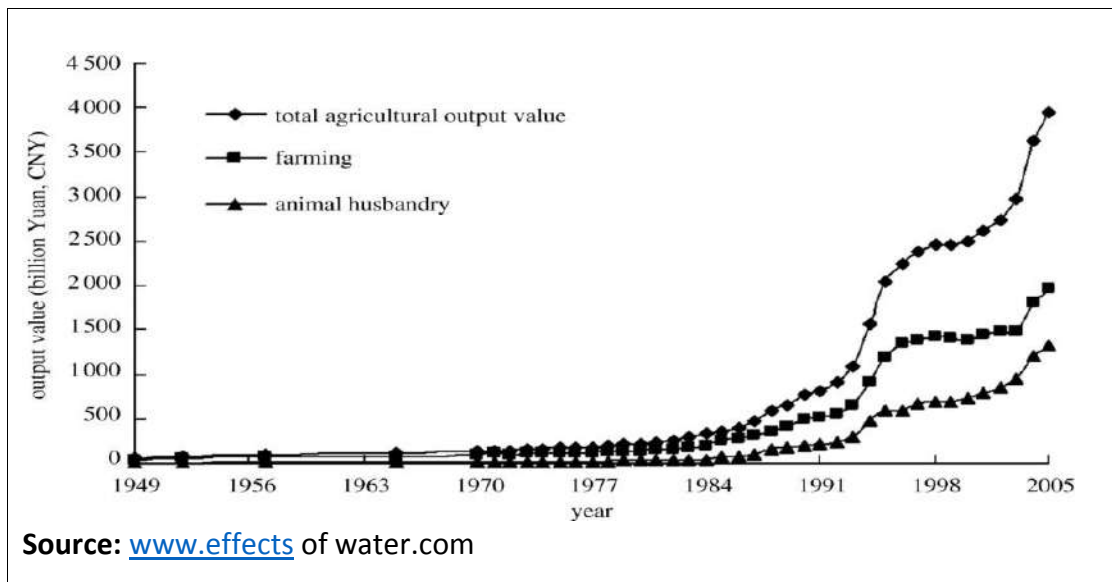
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(1 mark)

## Part D: Effects of Water on Agriculture

Study figure 7 and answer the questions that follow.

Figure 7: Effects of water on farming in China.



1. State ONE economic effects of water on farming in China between the years 1949 to 2005.

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(1 mark)

2. Describe ONE effect of water on the total output from 1984 to 2005

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(2 marks)

**Part E: Management of Water Resources (7 marks)**

1. With reference to a NAMED example or examples

- a) Describe 2 strategies that can be used to minimize water scarcity.
- b) Evaluate the effectiveness of these 2 strategies in minimizing water scarcity.

a) Description of two Strategies

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(4 marks)

b) Evaluation of effectiveness of named strategies

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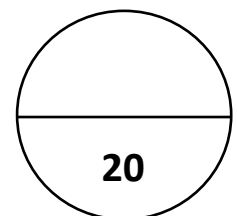
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(3 marks)

**SECTION B:**



**SECTION C: CONSEQUENCES OF PUPOLATION GROWTH (20 MARKS)**

**Part A: Population, Change and Density**

Study Figure 8, and answer the questions that follow.

**A Case Study of Tuvalu**

In 2015 Tuvalu's Population stood at 9,975; and an increase of 0.71% from the previous year. The 0.71% indicates a natural increase in population for the country as it exceeds number of deaths by 139. The total area of Tuvalu is 30km according to the United Nations Statistics Division.  
Source <https://www.Tuvalu.population.com>

1. Calculate the Population density of Tuvalu. (2 marks)

2. State ONE social effect of Tuvalu's population density.

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(1 mark)

3. Explain ONE factors causing population change in a country like Tuvalu.

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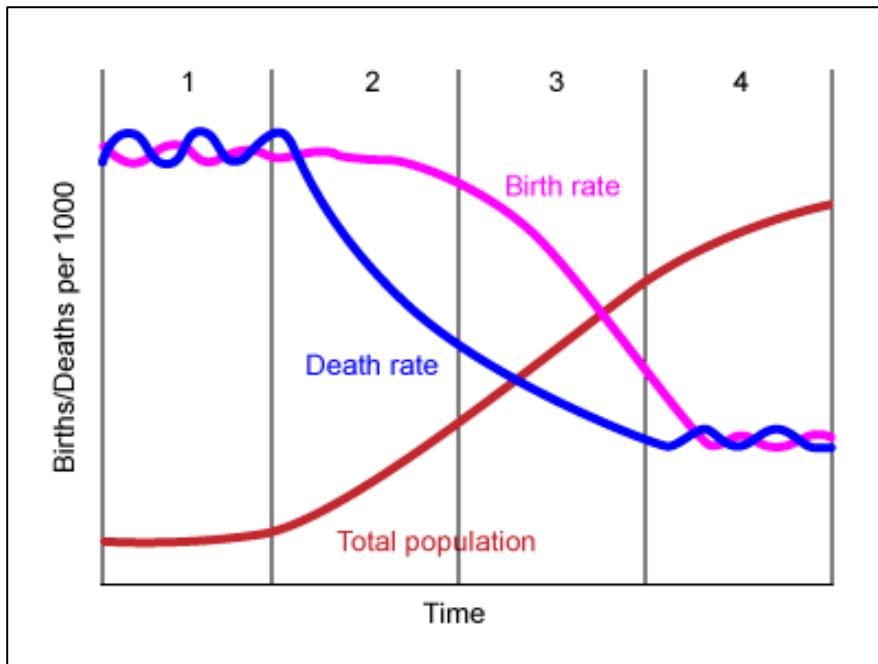
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(2 marks)

Study figure 9 and answer question 4.



Source: [www.DTModel/graph.com](http://www.DTModel/graph.com)

4. Explain ONE factors causing population change in a country like Tuvalu.

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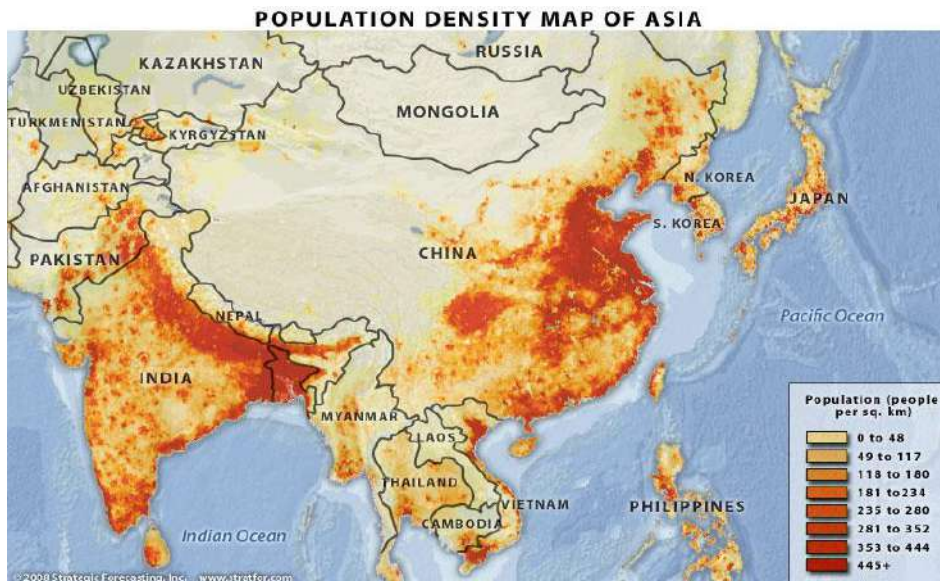
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(2 marks)

## Part B: Population Distribution and Density

Study figure 10, and answer the question that follow.



Source: [www. Population density Asia.com](http://www.Population density Asia.com)

1. Mongolia is one of the countries with very low population density. Explain the factor that influences its slow growth.

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(2 marks)

## Part C: Population Change and Effects on the Environment

1. Explain ONE negative impacts of population change on the environment

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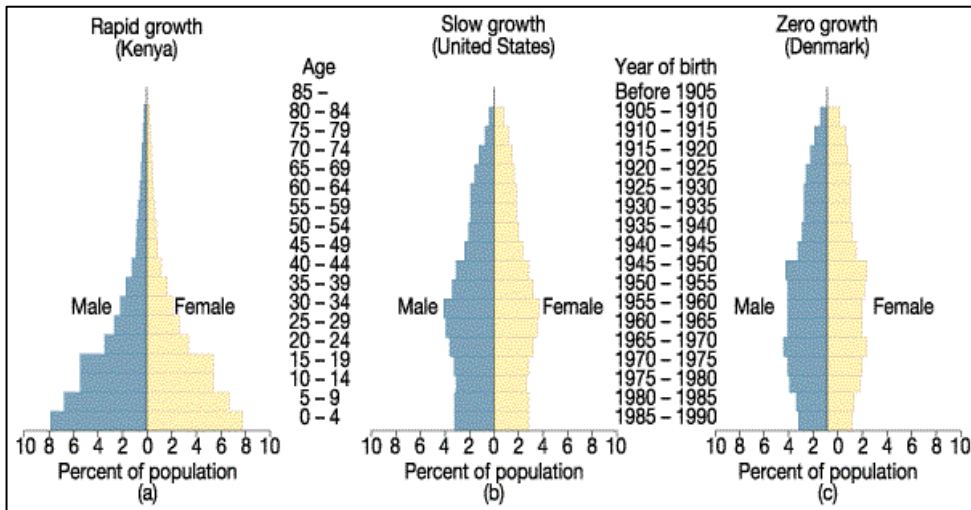
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(2 marks)

## Part D: Planned Response to Population Growth

Study figure 11 , and answer the question that follow.



Source: [www.Germany.population](http://www.Germany.population) data 2014.com

1. Explain ONE impact of zero population growth on Denmark's Economy.

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(2 marks)





b) Evaluation of the effectiveness of the Approaches.

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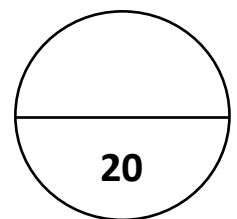
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(3 marks)

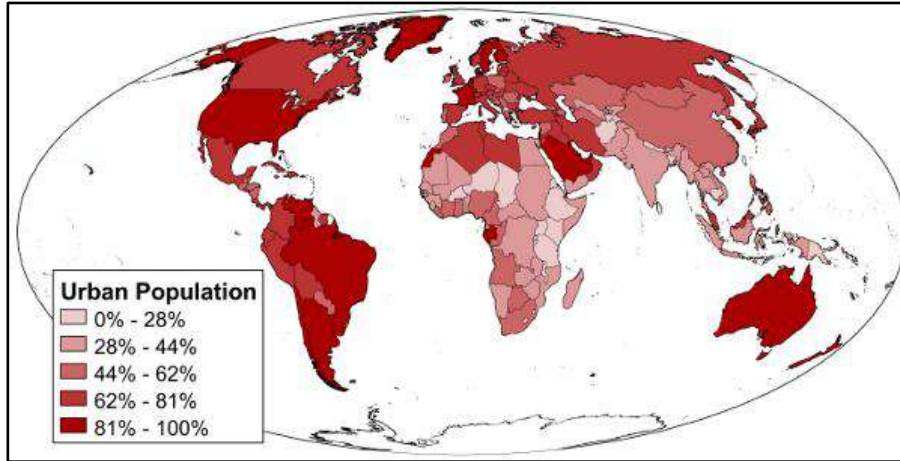
**SECTION C:**



**SECTION D: CHALLENGE OF URBANISATION AND URBAN ENVIRONMENTS** (20 MARKS)

**Part A: Nature, Global Patterns of Urbanization and Migration**

**Study Figure 12, and answer questions that follow.**



Source: Encarta 2015.

1. Nauru is one of the countries in the Pacific with the highest urbanized population. Give ONE reason accounted for its high urbanized population.

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(1 mark)

2. Describe ONE disadvantage of having a highly urbanized population

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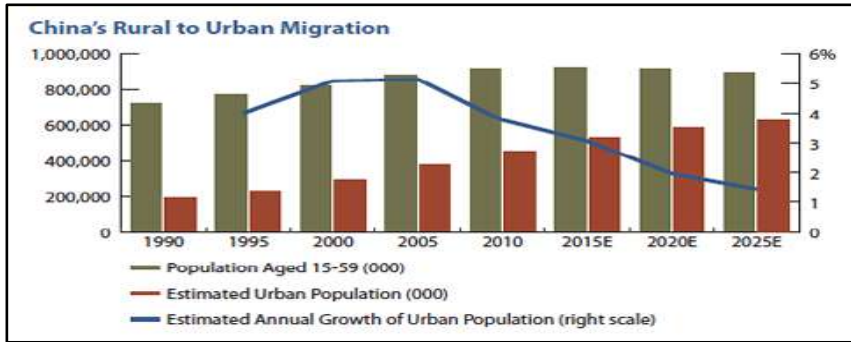
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(2 marks)

**Study Figure 13 and answer questions that follow.**

**Figure 13: China's Rural-Urban Migration.**



Source: [www.migration.com](http://www.migration.com)

3. Describe ONE social effect of rural –urban migration in the rural areas.

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(2 marks)

4. Explain ONE cause of decline in annual growth of urban population in 2015 in China

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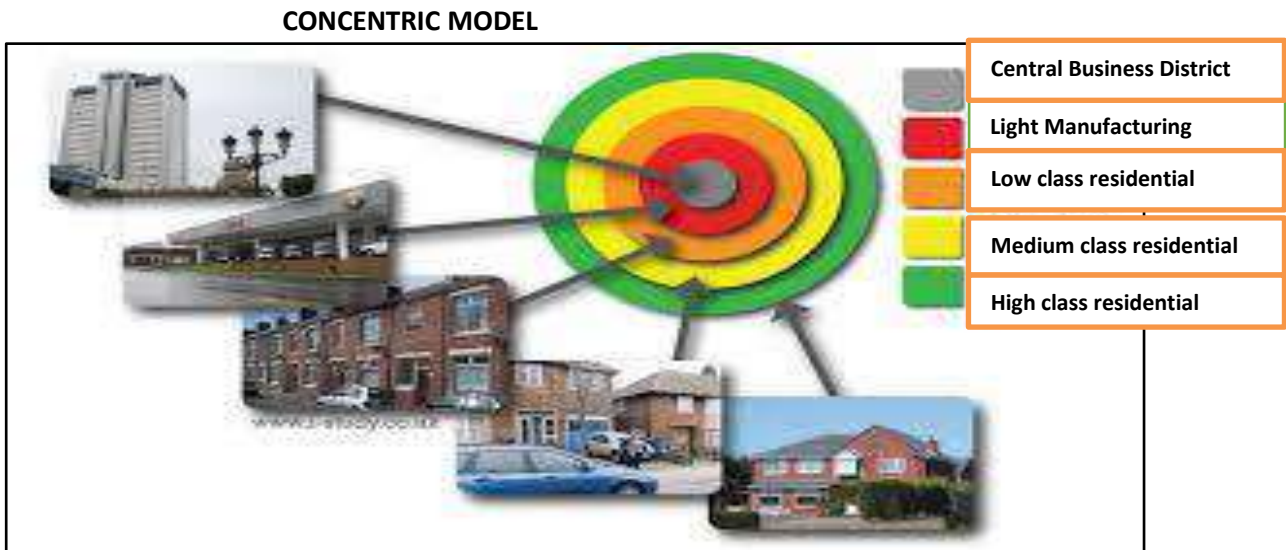
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(2 marks)

**Part B: Urban Models and Characteristics**

**Study figure 14, and answer the question that follow.**



Source: Urban models.com

1. Explain **ONE** limitation of Concentric Urban Model.

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(2 marks)

**Part C: Effects of Urban Growth on the Environment**

1. Japan has a very high urban population growth rate. Explain a possible cause of this.

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(2 marks)

2. Explain **TWO** environmental effects of urban growth.

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(2 marks)

**Part D: Urban Pollution - Planned Responses And Implications.**

1. With reference to urban cities you have studied

- a) Identify and explain 2 strategies that cities employ to reduce the problem of urban pollution
- b) Explain how effective are the strategies.

a) Strategies

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(4 marks)

b) Effectiveness

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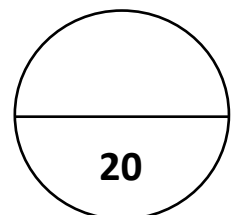
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(3 marks)

**SECTION D:**



**SECTION E: GEOGRAPHIC PERSPECTIVES ON TOURISM (20 MARKS)**

**Part A: Nature and World Distribution of Tourism**

1. Explain why tourism is often called a service industry.

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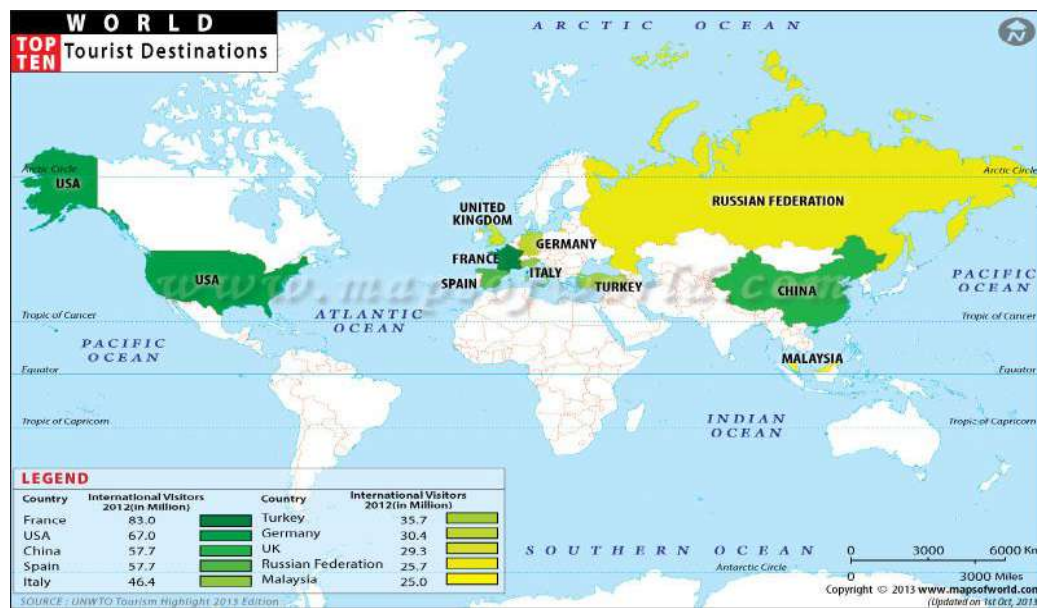
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(2 marks)

Study Figure 15, and answer questions 2, 3 and 4.

Figure 15: World Top Ten Tourist Destinations in 2012.



Source: [www.touristdestinationmaps.com](http://www.touristdestinationmaps.com)

2. Briefly explain why France becomes the top tourist destination in the world.

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(2 marks)

3. Describe ONE common characteristic of the top 10 host country of tourism industry.

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(2 marks)

4. Explain ONE way tourism can drive economic growth in Malaysia.

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(2 marks)

**Part B: Factors Influence Growth of Tourism**

Use the table below and answer questions that follow.

**Figure 16: Summary of Visitor Arrivals and Departures in Fiji.**

**Summary of Visitor Arrivals and Departures**

<b>Year</b>	<b>Arrivals</b>	<b>Departures</b>
1999	409,955	404,510
2000	294,070	294,286
2001	348,014	342,067
2002	397,859	395,118
2003	430,800	424,058
2004	504,075	461,907
2005	545,145	535,063
2006	548,589	546,247
2007	539,881	535,190
2008	585,031	578,962
2009	542,186	536,889
2010	631,868	625,779
2011	675,050	667,729
2012	660,590	652,502

**Source:** Embarkation and Disembarkation Cards  
- Department of Immigration

1. Describe ONE Social factors causing increase of tourists arrival in Fiji from years 2001-2012.

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(2 marks)

2. State ONE reason for tourist reduction in the year 2000 in Fiji.

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(1 mark)

**Part C: Impacts of Tourism**

1. Describe ONE negative economic impacts of tourism industry.

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(2 marks)

**Part D: Planned and Management of Tourism**

**1. With reference to a Country as your example**

- a) Discuss TWO strategies for a country to take to counter tourism economic drawbacks.
- b) How effective are these strategies?

a) Strategy 1:

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Strategy 2:

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(4 marks)

b) Effectiveness of Strategies mentioned in a).

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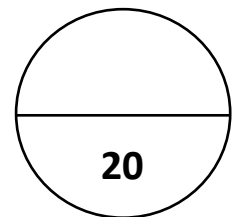
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(3 marks)

**SECTION E:**



**2017  
GEOGRAPHY**

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<b>FOR MARKER USE ONLY</b>		
<b>SECTION</b>	<b>EXAM MARKS</b>	<b>CHECK MARKER</b>
<b>A</b>	<b>20</b>	
<b>B</b>	<b>20</b>	
<b>C</b>	<b>20</b>	
<b>D</b>	<b>20</b>	
<b>E</b>	<b>20</b>	
<b>TOTAL</b>	<b>100</b>	
<b>MARKER'S INITIAL</b>		