

STUDENT EDUCATION NUMBER



GOVERNMENT OF SAMOA
MINISTRY OF EDUCATION, SPORTS & CULTURE

Samoa Secondary Leaving Certificate

GEOGRAPHY

2019

QUESTION and ANSWER BOOKLET

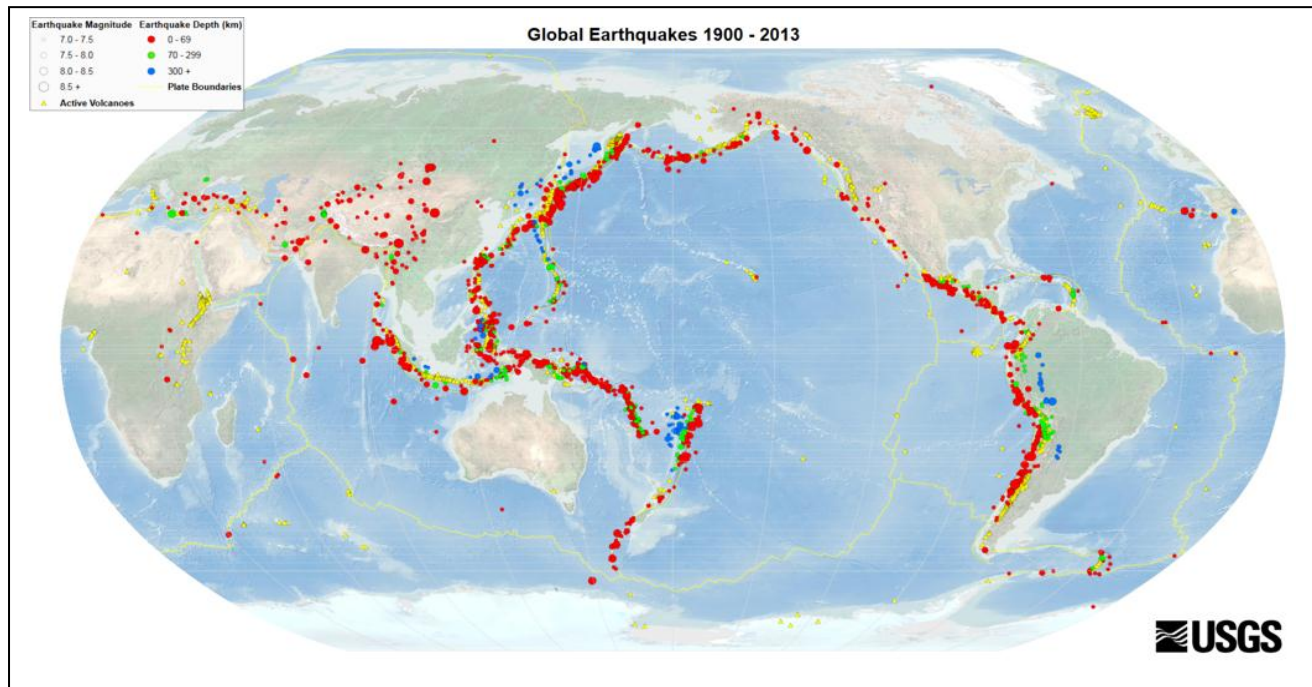
Time allowed: 3 Hours & 10 minutes

INSTRUCTIONS

1. You have 10 minutes to read **before** you start the exam.
2. Write your **Student Education Number (SEN)** in the space provided on the top right hand corner of this page.
3. Answer **ALL QUESTIONS**. Write your answers in the spaces provided in this booklet.
4. If you need more space, ask the Supervisor for extra paper. Write your SEN on all extra sheets used and clearly number the questions. Attach the extra sheets at the appropriate places in this booklet.

STRANDS		Page Number	Time (minutes)	Weighting
STRAND 1:	PHYSICAL ENVIRONMENT	2	36	20
STRAND 2:	RESOURCES AND THEIR USES	9	36	20
STRAND 3:	POPULATION SETTLEMENT	16	36	20
STRAND 4:	DEVELOPMENT STUDIES-GLOBALIZATION AND TOURISM	23	36	20
STRAND 5:	ENVIRONMENTAL ISSUES-CLIMATE CHANGE	30	36	20
TOTAL			180	100

Check that this booklet contains pages 2-37 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

PART 1: The Features of Natural Hazards

Source: https://en.wikipedia.org/wiki/Ring_of_Fire#/media/File:EQs_1900-2013_worldseis.png

Use the Map to answer Numbers 1 – 3.

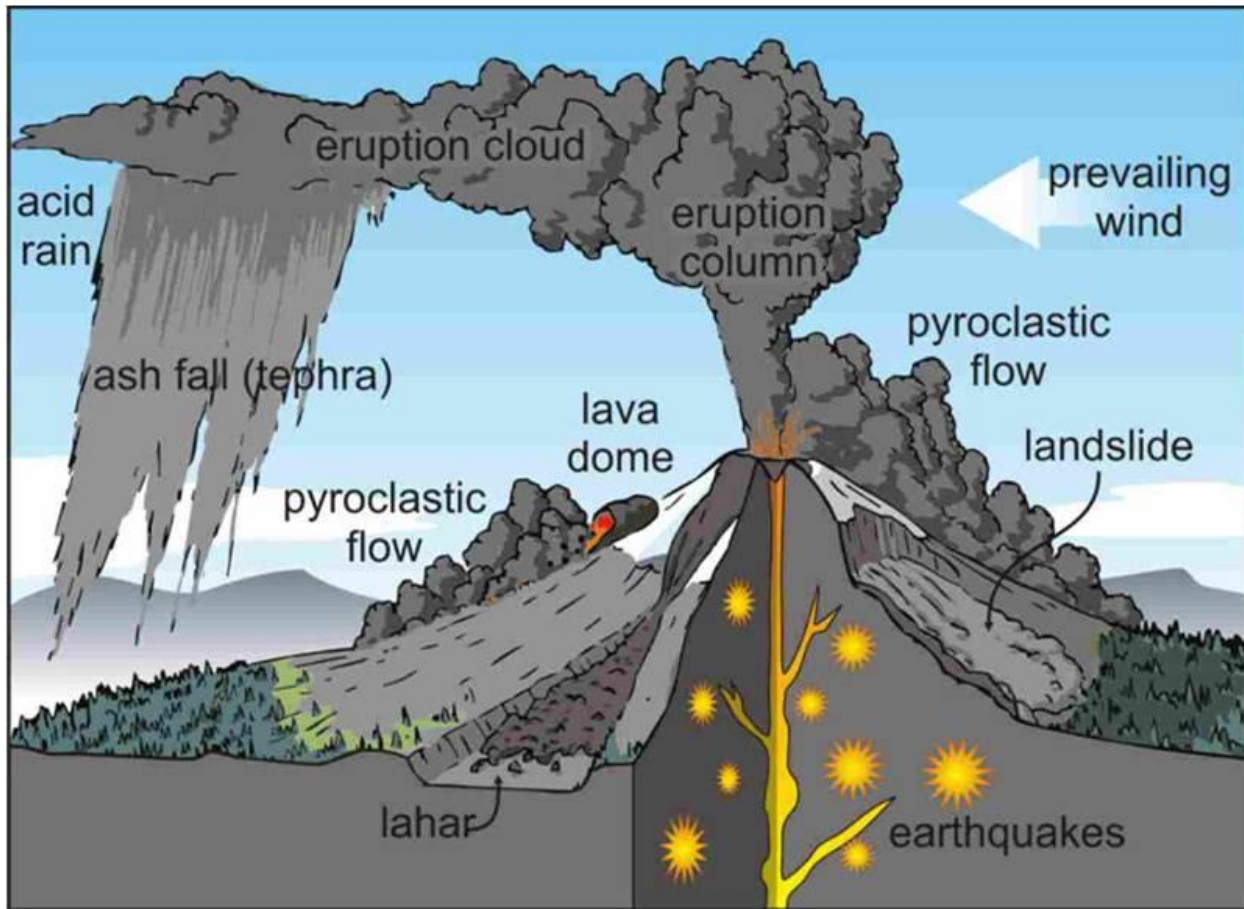
1. Name the seismic active belt of an earthquake epicentre that fringes the Pacific basin.

SL 1

2. Suggest TWO features of an earthquake that will influence its intensity.

SL 2

Part II: Causes, Effects and Responses



Source: <http://worldlywise.pbworks.com/w/page/25833576/Unit%202%20Section%20B%20-%20Causes%20and%20effects%20of%20volc>

Use the diagram to answer Numbers 4 – 6.

4. What is a **pyroclastic flow?**

SL 1

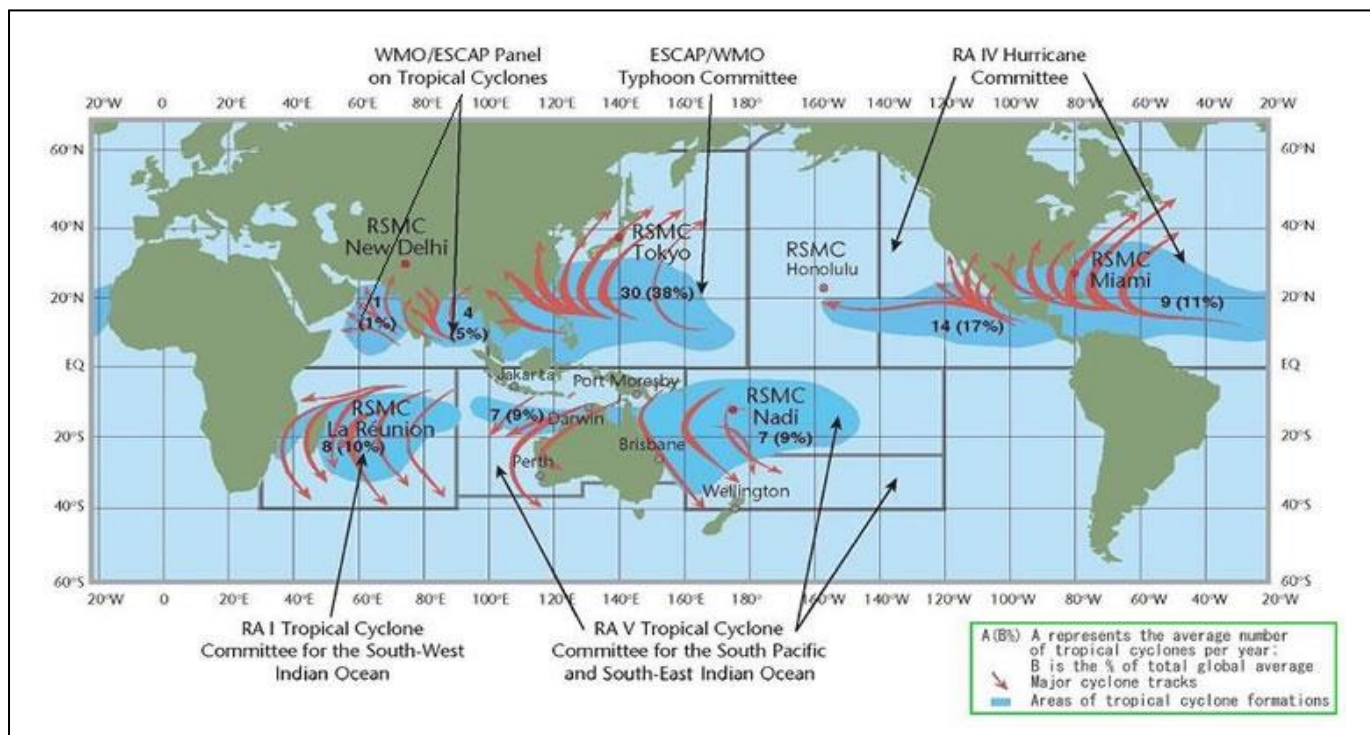
5. Name the volcano that erupted in Samoa in 1905.

SL 1

6. Explain why it is helpful when geologists can predict eruptions.

SL 3

PART III: Global Cyclone Monitoring



Source: (<https://www.sciencedirect.com/science/article/abs/pii/S1470160X17305848>)

Use the map to answer Numbers 7 – 9.

7. Name the source area of the Cyclone path affecting Samoa.

SL 1

8. State ONE way overseas nations can warn Samoa of an approaching cyclone.

SL 1

9. Explain THREE reasons why the distributions of cyclones are concentrated close to the equator.

SL 3

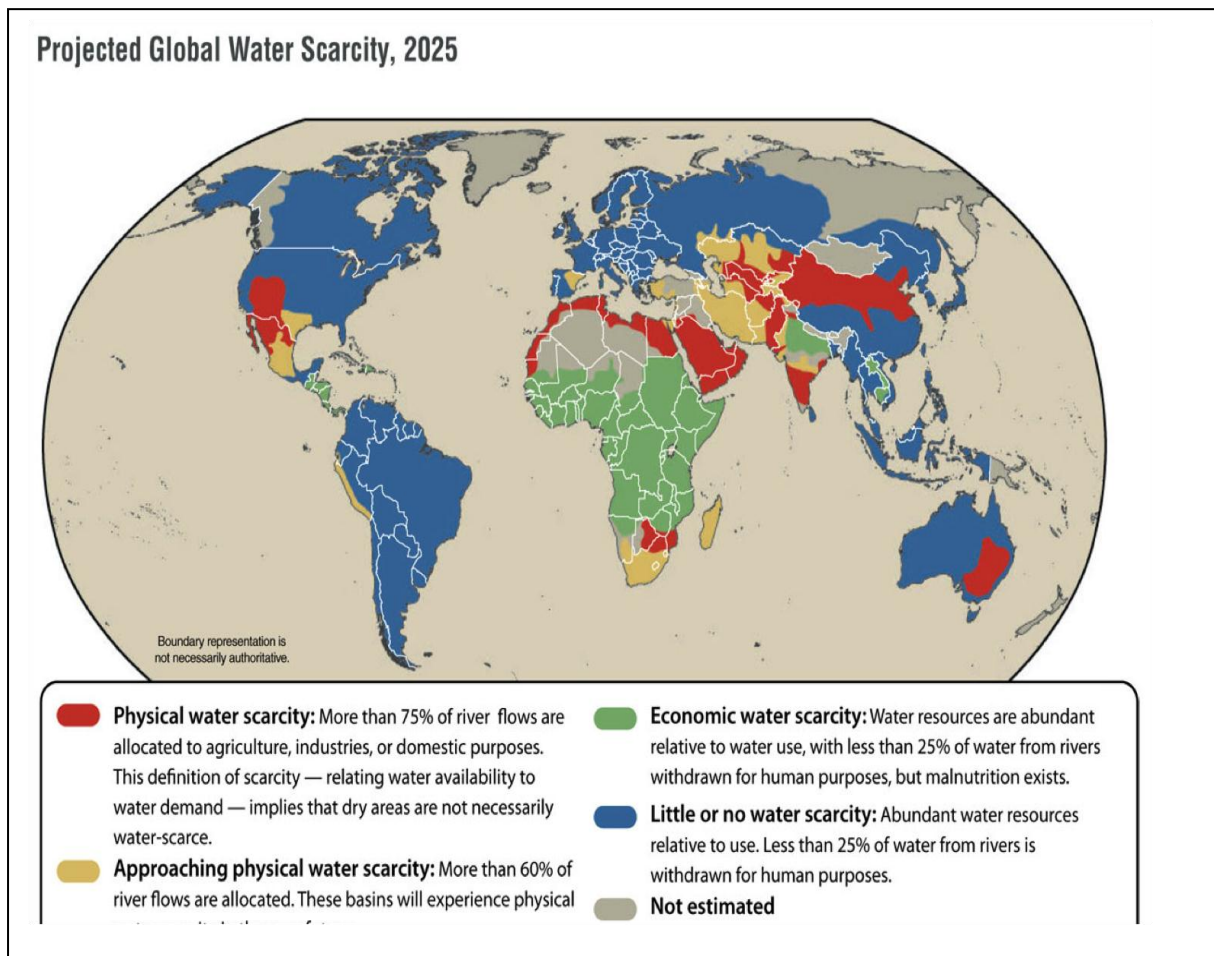
PART IV: Cyclone Responses

- 10.** Discuss the effectiveness of three (3) strategies that can be used for reducing the negative effects of volcanoes and earthquakes in Samoa.

Write 150 – 200 words paragraph.

SL 4

PART I: Global Water Distribution



Source: <http://nthodygeography.blogspot.com/2014/02/physical-or-economic-water-scarcity.html>

Use the Map to answer Numbers 11 – 13.

11. Define the term **water surplus**.

SL 1

12. Describe global patterns of freshwater distribution.

SL 2

13. Explain the natural process that results in scarcity of freshwater for some parts of the world.

SL 3

PART II: Water as a Resource



Source: <https://thewaterproject.org/why-water/water-crisis>

Use the resource to answer Numbers 14 – 16.

14. Name ONE purpose for which water is used in the picture.

SL 1

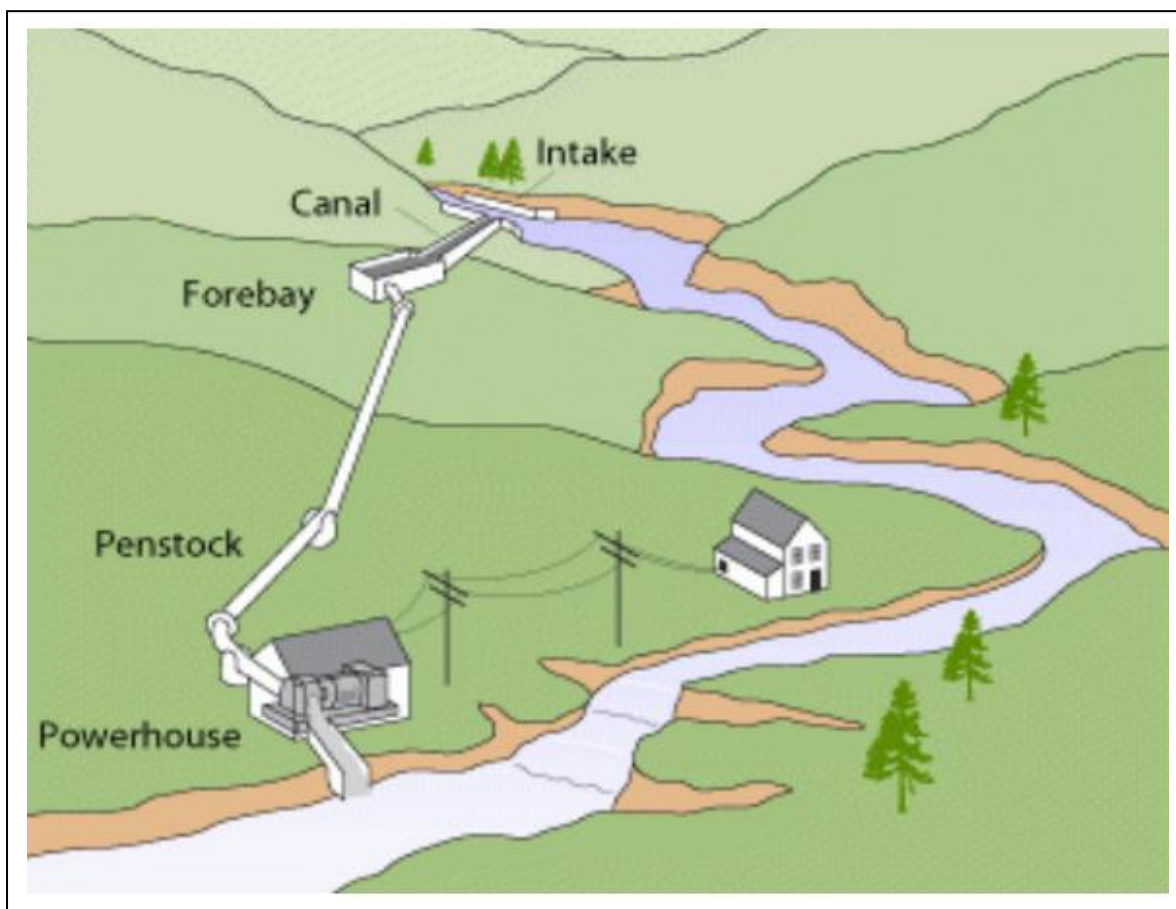
15. State whether water is a renewable or non-renewable resource.

SL 1

16. Explain using examples of how the perception of water as a resource is different between the peoples of Africa and Samoa.

SL 3

PART III: Water use (Micro-Hydro Projects)



Source: <https://www.energy.gov/energysaver/buying-and-making-electricity/microhydropower-systems>

Use the diagram to answer Numbers 17 – 19.

17. Name a micro-hydro project in Samoa that is similar to the above picture.

_____	SL 1

18. Define the term **hydrological cycle**.

_____	SL 1

PART IV: Water Resource Management

20. Explain how water resources are being managed in areas of water surplus and deficit areas

Write 150 – 200 words paragraph.

SL 4

PART I: The global patterns of urbanisation

Table 1 World Urban Population, 1980-2000-2020

Urban Population						
	Urban Population in %			Urban Population Growth Rate in %		
	1980	2000	2020	1980-85	2000-05	2020-25
World	39	47	57	2.6	2.2	1.7
Africa	27	38	49	4.4	4.0	3.0
Europe	69	75	80	0.8	0.3	0.1
North America	74	77	82	1.2	1.0	0.9
Central America	60	67	73	3.1	2.0	1.5
South America	68	80	85	3.1	1.8	1.1
Asia	27	38	50	3.6	2.8	2.0
Oceania	71	70	72	1.4	1.3	1.3
Developing Countries	29	41	52	3.8	2.9	2.1
Developed Countries	71	76	81	0.9	0.5	0.3

Source: World Resources 1998-99

Source: <https://www.globalurban.org/GUDMag07Vol3Iss1/Hall.htm>

Use the table to answer Numbers 21 – 23.

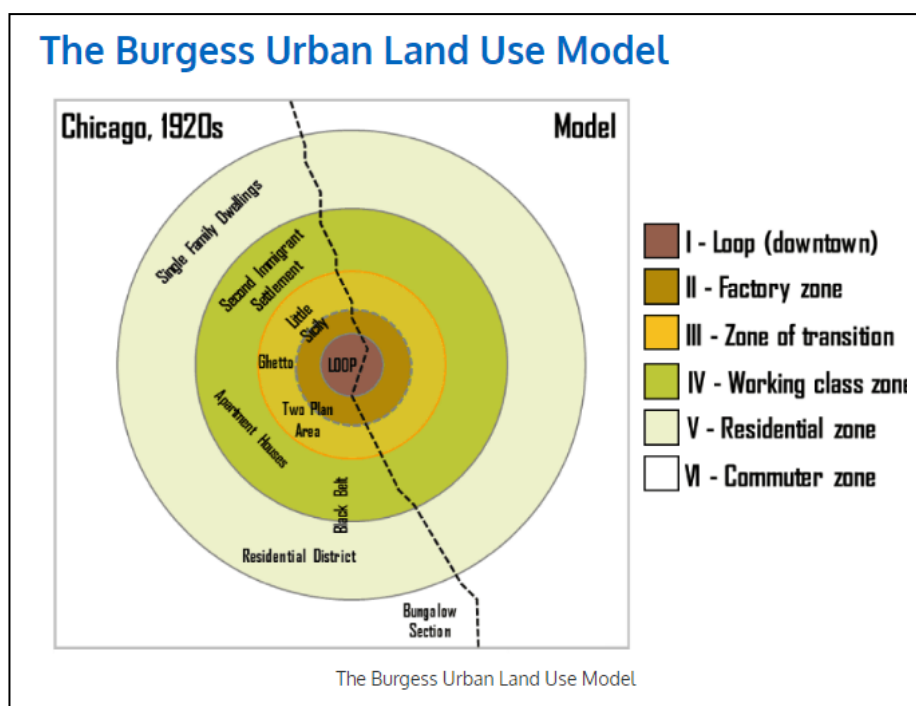
21. Which continent shows the highest growth rate of urban population?

SL 1

22. Describe global patterns of urban growth in developed and developing countries.

SL 2

PART II: Model of urban growth



Source: https://transportgeography.org/?page_id=4908

Use the resource to answer Numbers 24 – 26.

24. Define the term **Central Business District (CBD)**.

SL 1

25. Define the term **rural urban fringe**.

SL 1

26. Explain THREE reasons why the Burgess model was necessary in Chicago and not Samoa.

SL 3

PART III: Urban Planning and Management

Favela in Sao Paulo



Source: <https://depositphotos.com/178730520/stock-photo-slum-neighborhood-of-sao-paulo.html>

27. Define the term **Favela** as in Sao Paulo.

SL 1

28. Name the city above which was built to solve urban problems in Sao Paulo.

SL 1

- 29.** Explain how the urbanisation process in industrialised countries is different from the Pacific islands.

SL 3

PART IV: Effects of Urban Environment

30. Discuss the problems associated with rapid urban growth using specific examples to support your answer.

Write 150 – 200 words paragraphs.

SL 4

PART I: Globalisation and development



Source: <http://intravelreport.blogspot.com/2015/12/2017-becomes-international-year-of.html>

Use the resource to answer Numbers 31 – 33.

31. Define the term **Sustainable Development Goals**.

SL 1

32. List TWO political reasons why Samoan should embrace the new 2030 United Nation Agenda on sustainable development goals in 2015.

SL 2

- 33.** Explain the link between the Samoa's Tourism Development plan and the United Nation sustainable tourism for development plan.

SL 3

PART II:

Tourism Development

Sustainable Tourism Development



Source: <https://tourismdevelopmentrevision.weebly.com/agents-of-tourism-development.html>

Use the resource to answer Numbers 34 – 36.

34. Define the term **globalisation**.

SL 1

35. Identify a feature of the environment that can be marketed for ecotourism.

SL 1

PART III: Tourism Development Project

Apia Waterfront project: A look into the future



(Photo: Samoa Observer) By Elizabeth Ah-Hi, 26 July 2018.

Source: <https://www.samoaoobserver.ws/category/samoa/11884>

Use the photograph to answer Numbers 37 – 39.

37. State ONE reason for the development of the Apia Waterfront.

SL 1

38. Name the authorities in Samoa that are responsible for the tourism development Project.

SL1

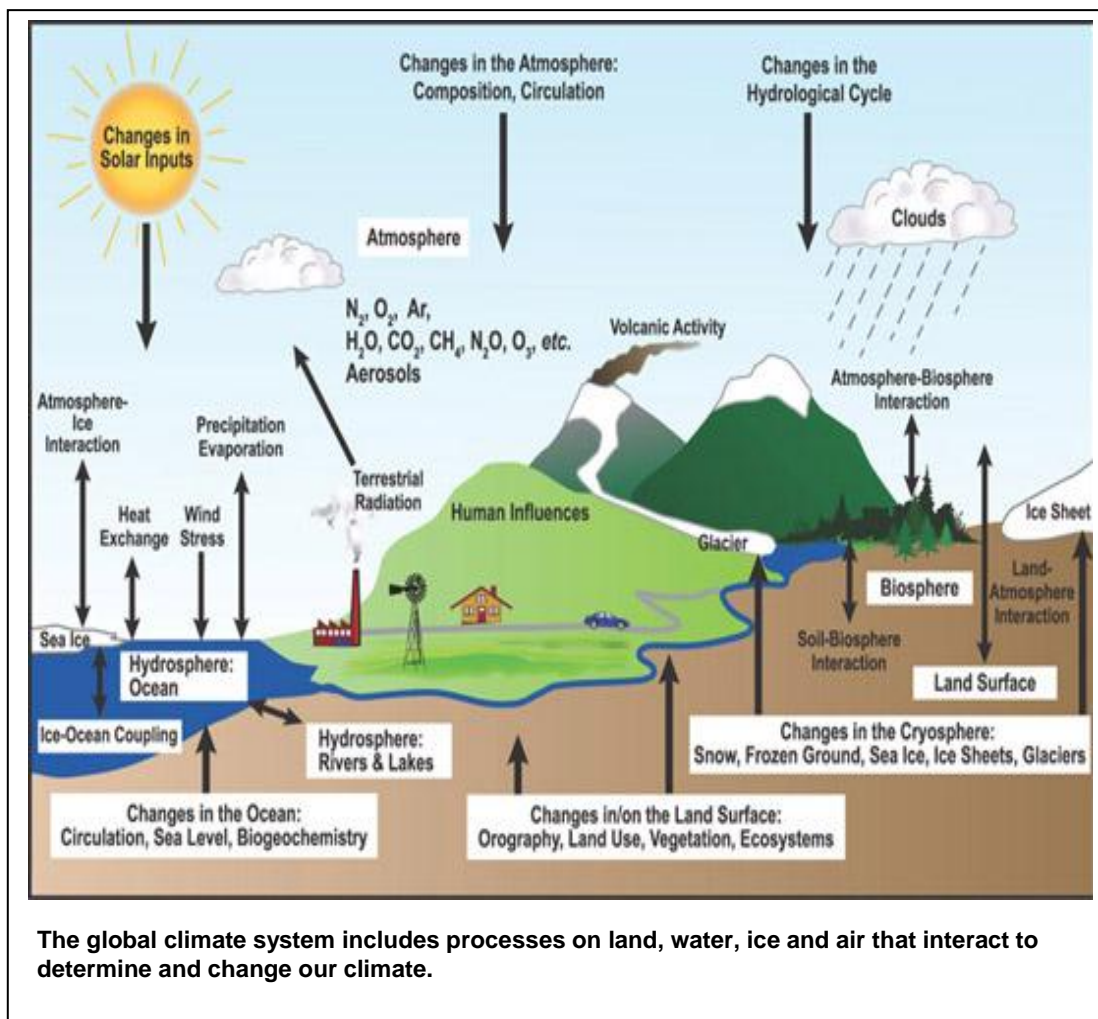
PART IV: Tourism Strategies and Effectiveness

- 40.** Discuss the effectiveness of the Samoa's National Tourism Strategy in terms of its management and outcomes.

Write 150 – 200 words paragraph.

SL 4

PART I: Global Warming Process



Source: <https://climatechange.environment.nsw.gov.au/About-climate-change-in-NSW/Climate-systems>

Use the resource to answer Numbers 41 – 43.

41. Define the term **Heat Budget**.

SL 1

PART II: Perspectives on Climate Change

A Pacific Perspective on Climate Change
by [LUKA FATUESI](#) on DECEMBER 2, 2015

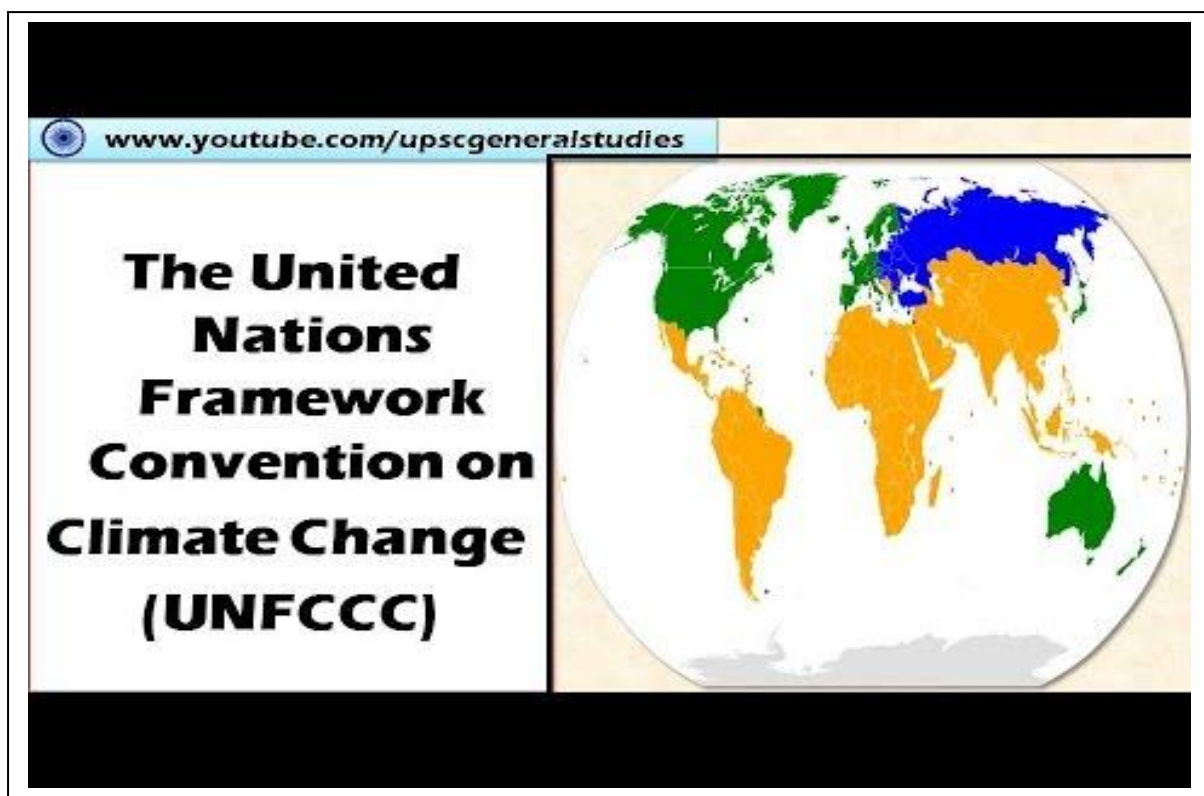
This week, the United States sent a delegation to Paris to negotiate an international agreement on climate change. While each country has its own interests to consider at the Paris Conference, delegations must realize that the world needs a strong collective response to the problem of carbon emissions. As a large power with significant influence, the U.S. has a moral obligation to mitigate the effects of climate change, not just for itself but for other nations that would suffer from inaction. One region that is especially susceptible to the dangers of climate change is the Pacific Islands region. According to The Fund for Peace, which produces an [index](#) on the political stability of every nation, not one Pacific Island nation is currently categorized as a stable. (**Aside from Australia and New Zealand, which are usually not included in the term Pacific Island nations. This statement generally refers to small isolated islands in the South Pacific.*) Inaction on climate change threatens to exacerbate regional vulnerability there, and as such, the U.S. and other world powers must provide strong leadership to preclude the possibility of disaster.

Source: <https://stanfordpolitics.org/2015/12/02/pacific-perspective-climate-change/>

44. State ONE purpose of the 2015 Paris Agreements.

SL 1

Part III: Climate Change Key International Agreements



Source: <https://tr.redsearch.org/images/7824172#images-1>

Use the resource to answer Numbers 47 – 49.

47. State the objective of the UNFCCC.

SL 1

48. Identify ONE other greenhouse gas beside carbon dioxide (CO₂).

SL 1

PART IV: Climate Change effectiveness

- 50.** Discuss and evaluate the planned responses to climate change. Write 150 – 200 words paragraph.

[illegible]

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GEOGRAPHY

2019

(For Scorers only)

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TOTAL	100		