



GOVERNMENT OF SAMOA
MINISTRY OF EDUCATION, SPORTS AND CULTURE

STUDENT EDUCATION NUMBER

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Samoa Secondary Leaving Certificate

GEOGRAPHY

2022

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 paper to write your answers, 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 | | Pages | Time (min) | Weighting |
|-----------|---------------------------|-------|------------|-----------|
| STRAND 1: | PHYSICAL ENVIRONMENT | 2-7 | 36 | 20 |
| STRAND 2: | RESOURCES AND THEIR USES | 8-13 | 36 | 20 |
| STRAND 3: | POPULATION AND SETTLEMENT | 14-19 | 36 | 20 |
| STRAND 4: | GLOBALISATION AND TOURISM | 20-25 | 36 | 20 |
| STRAND 5: | ENVIRONMENTAL ISSUES | 26-31 | 36 | 20 |
| TOTAL | | | 180 | 100 |

Check that this booklet contains pages 2-32 in the correct order.

HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

Choose the BEST answer and write the correct letter in the box provided for Questions 1 – 6.

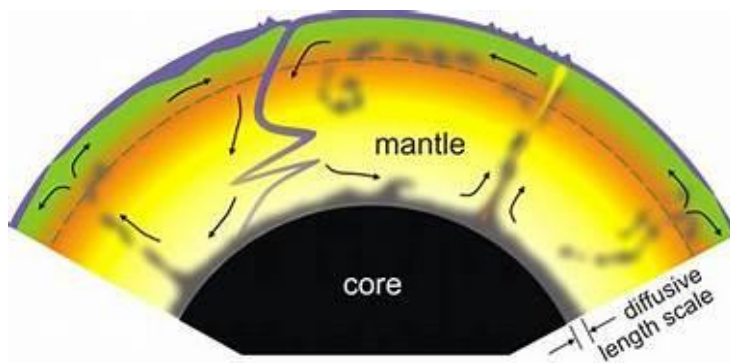
1. Which of the following natural hazards occurred in Tonga in January 2022?

- A. Cyclone
- B. Flooding
- C. Tsunami
- D. Landslide

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Use Resource 1 below and your knowledge to answer Questions 2 – 3.

Resource 1:



Source: <http://www.geologypage.com/2016/02/>

2. Which of the following refers to the fractures in the earth's crust that follow the movements of the plates?

- A. Subduction process.
- B. Mantle.
- C. Core.
- D. Fault lines.

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3. Plate convergence is caused by the:

- A. plate boundaries around the core.
- B. convection currents in the mantle.
- C. plate cracks in the earth's crust.
- D. floating of giant plates on the mantle.

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Use Resource 2 below and your knowledge to answer Questions 4 – 5.

Resource 2



Source: <https://www.itu.int/en/ITU-D/Emergency-Telecommunications/Pages/ICTs-4-DM.aspx>

4. Which of the following can be used to provide water and wind resistance?

- A. Effective building codes.
- B. Early warning systems.
- C. Evacuation procedures.
- D. Water reservoir and hydro dams.

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5. Monitoring of natural hazards in Samoa is the responsibility of the:

- A. Ministry of Communication and Information Technology.
- B. Maritime Academy of Samoa.
- C. Samoa Ministry of Police.
- D. Samoa Meteorology Division.

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6. Which of the following is a cross sectional map?

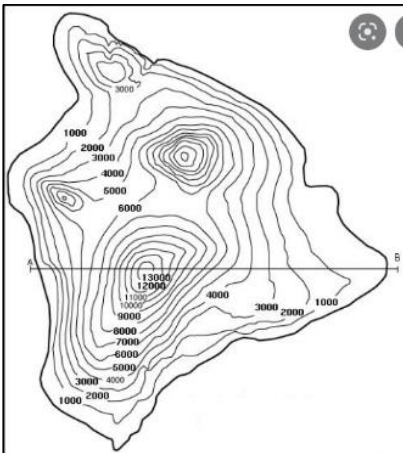
A.



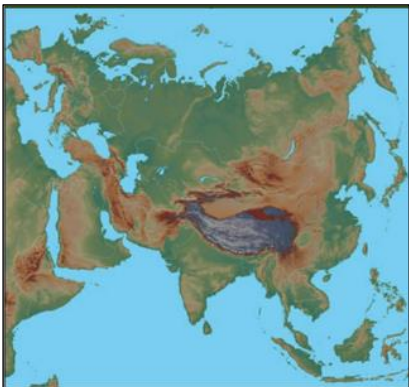
B.



C.



D.



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PART 1: Hazards Monitoring Study, Causes, Effects and Responses

Use the resource below and your knowledge to answer Question 7.

Resource 3



Source: <https://www.climateandcapitalmedia.com/un-says-deaths-from-natural-disasters-may-double-by-2030/>

7. Describe ONE early warning tool that can be used to reduce the effects of cyclones in Samoa.

SL 2

8. Describe ONE cause of cyclones in the Pacific.

SL 2

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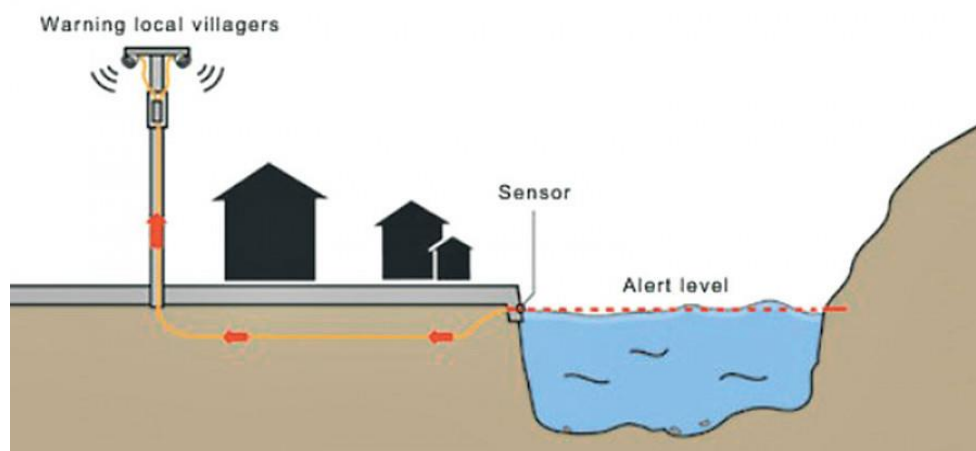
10. Explain the reason for using appropriate building codes in constructing buildings.

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Use the resource below and your knowledge to answer Question 11.

Resource 4



Source: <https://kathmandupost.com/national/2017/07/03/govt-to-install-more-early-warning-systems>

11. Discuss how ONE emergency procedure for disaster management would be implemented and how effective it will be in managing a sudden volcanic eruption in Samoa.

[illegible]

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Choose the BEST answer and write the correct letter in the box provided for Questions 12 – 16.

Use Resource 5 below and your knowledge to answer Questions 12 & 13.

Resource 5



Source: <https://www.bitlanders.com/blogs/renewable-and-non-renewable-resources/197928>

12. Non-renewable resources:

- A. are replenished with the speed at which they are consumed.
- B. include natural gas, oil, and coal.
- C. include solar and wind power.
- D. are only found in the Pacific.

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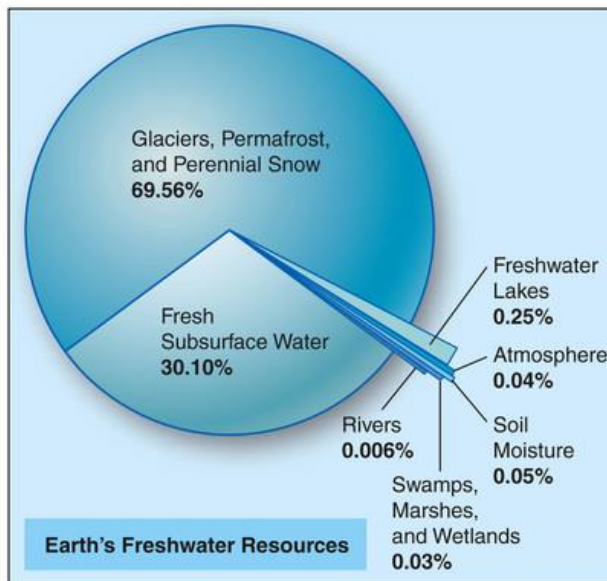
13. Non-renewable water resource:

- A. is computed on the basis of the water cycle.
- B. represents the long-term average annual flow of rivers.
- C. has a negligible rate of replenishing.
- D. consists of all water bodies both surface water and underground.

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Use Resource 6 below and your knowledge to answer Questions 14 – 16.

Resource 6



Source: <https://www.thegeographeronline.net/water.html>

14. Which one of the following is **NOT** a part of the hydrological cycle?

- A. Transpiration
- B. Evaporation
- C. Precipitation
- D. Decomposition

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15. Water is used commercially for:

- A. manufacturing.
- B. in dams.
- C. household chores.
- D. in public reserves.

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16. Which of the following Pacific Island country has surplus freshwater?

- A. Nauru
- B. Marshall Islands
- C. Papua New Guinea
- D. Fiji

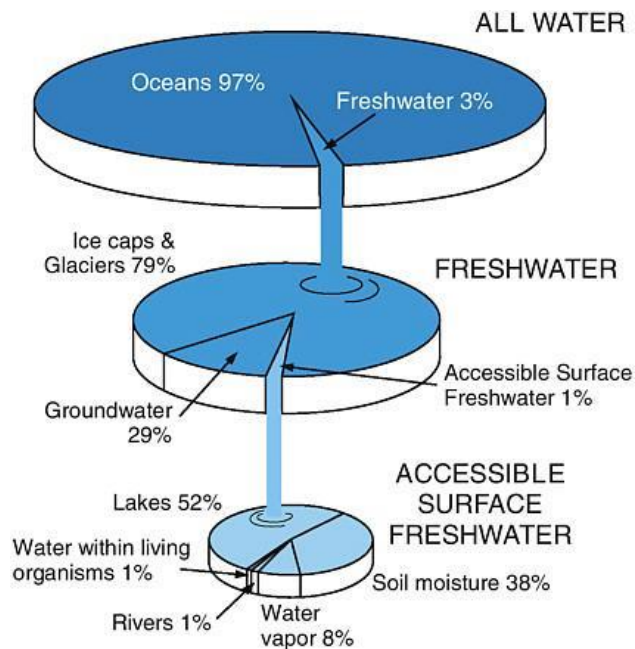
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PART I: Global Water Distribution

Use the resource below and your knowledge to answer Questions 17 & 18.

Resource 7



Source: Courtesy "Earth Update" CD-ROM, Rice University and the Houston Museum of Natural Science

17. Describe ONE effective method of conserving water in a typical Samoan home.

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18. Discuss the way in which longitudes and latitudes affect the types of rainfall in an area.

[illegible]

PART II: Water as a Resource

PART III: Water Use

20. Explain the impact of any ONE form of water use on freshwater scarcity.

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- 21 Discuss the feasibility of constructing a water reservoir in rural Samoa. Use specific examples to support your answer.

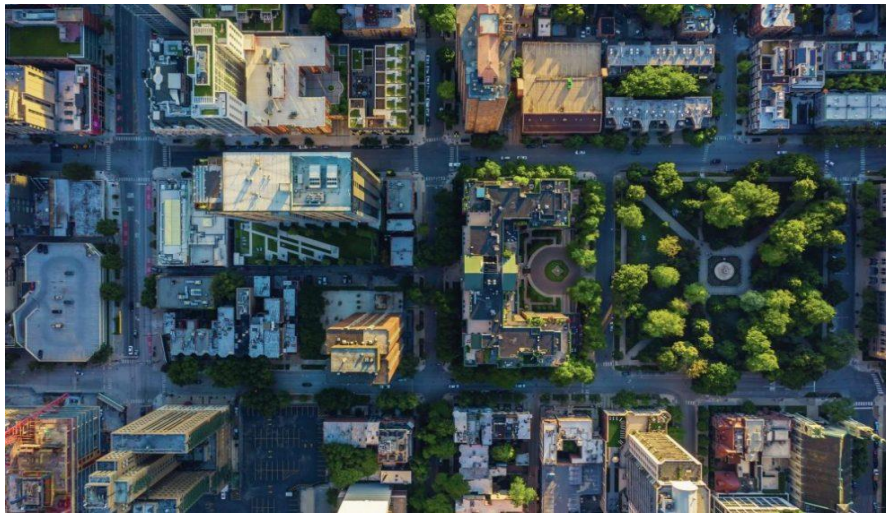
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Choose the BEST answer and write the correct letter in the box provided for Questions 22 – 26.

Use Resource 8 below and your knowledge to answer Questions 22 – 24.

Resource 8



Source: <https://uscatholic.org/articles/202104/urban-planning-is-an-inherently-catholic-practice/>

22. Which of the following terms refers to countries where most of the world population resides?

- A. Developing countries.
- B. Majority world.
- C. Alternative countries.
- D. Migrated countries.

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23. Which of the following countries has a low proportion of the population living in urban centres?

- A. India
- B. China
- C. Vanuatu
- D. Nigeria

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24. Which of the following statements is the correct description of the global pattern of urbanization?

- A. There has been an increase in people living in rural areas from 2011.
- B. Less than 10% of the world's population lives in urban areas and the number continue to decline.
- C. By 2030, more than 60 percent of the world's population is expected to live in rural areas.
- D. By 2050, 70 percent of the world's population will be living in urban areas.

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Use Resource 9 below and your knowledge to answer Questions 25 & 26.

Resource 9



Source: The Punggol Master plan development by Urban Strategies Inc. of Toronto, Canada. (image: courtesy Graphisoft Inc. Copyright Urban Strategies Inc. All rights reserved.)

25. Which of the following type of land area normally involves treating raw materials?

- A. Industrial area.
- B. Residential area.
- C. Recreational area.
- D. Green belt.

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26. The model which is based on the idea that land values are highest in the centre of a town or city is the:

- A. oceania model.
- B. concentric model.
- C. sector model.
- D. multiple nuclei model.

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PART I: The Global Pattern of Urbanisation

Use the resource below and your knowledge to answer Questions 27 – 29.

Resource 10



Source : <https://www.geographyforyou.com/2017/08/types-of-urban-settlements.html>

27. Describe ONE measure that can be used to reduce traffic congestion in big cities.

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28. Explain ONE reason for the segregation of cultural groups in urban areas.

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29. Explain how ONE type of pollution resulting from growth in urban areas affects the environment. Use specific examples to support your answer.

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PART III: Urban Planning and Management

30. Explain ONE reason why clearly defined urban zones are necessary.

[illegible]

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31. Different strategies have been used to manage urbanization. Evaluate the effectiveness of ONE of the strategies used and its associated issues.

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SL 4

Choose the BEST answer and write the correct letter in the box provided for Questions 32 – 36.

32. The term used to describe the result of turning places, people and societies into a highly connected place is:

- A. migratory village.
- B. linear village.
- C. urban village.
- D. global village.

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33. A **social** reason why countries need to interact with each other is to:

- A. promote trade.
- B. encourage communication between people.
- C. increase the population of the countries.
- D. all the citizens to vote in their governments.

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Use Resource 11 below and your knowledge to answer Questions 34 – 36.

Resource 11



Source: The Samoa Tourism Authority Visitor Information Center, Matafele, Apia, Samoa

34. One of the main roles of the Samoa Tourism Authority in Samoa is:

- A. arranging international flights especially during covid-19.
- B. ensuring that there is enough foreign currency for tourists upon arrival.
- C. ensuring that tourists treat tourism sites with respect.
- D. marketing and promoting Samoa as a tourist destination.

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35. Which of the following can be marketed by the Samoa Tourism Authority for ecotourism?

- A. Fauna, flora, and cultural heritage.
- B. The impact of Samoan workers.
- C. Tourism facilities with a high impact on nature.
- D. Cheaper alternative foreign materials

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36. Ecotourism can be defined as the:

- A. irresponsible travel to natural areas.
- B. conservation of the environment and sustaining the well-being of the local people.
- C. promotion of appreciation for nature, local society, and culture.
- D. has distinct layers whose boundary is a pause.

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PART I: Globalisation and development

Use the resource below and your knowledge to answer Questions 37 – 39.

Resource 12



37. Describe ONE attribute of Samoa's population that gives them an advantage in the global market.

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PART II: Tourism Development

40. Explain ONE negative impact of tourism on Pacific Island countries. Use specific examples to support your answer.

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SL 3

41. Discuss ONE way of ensuring that the benefit of ecotourism reaches all levels of the Samoan community. Use specific examples to support your answer.

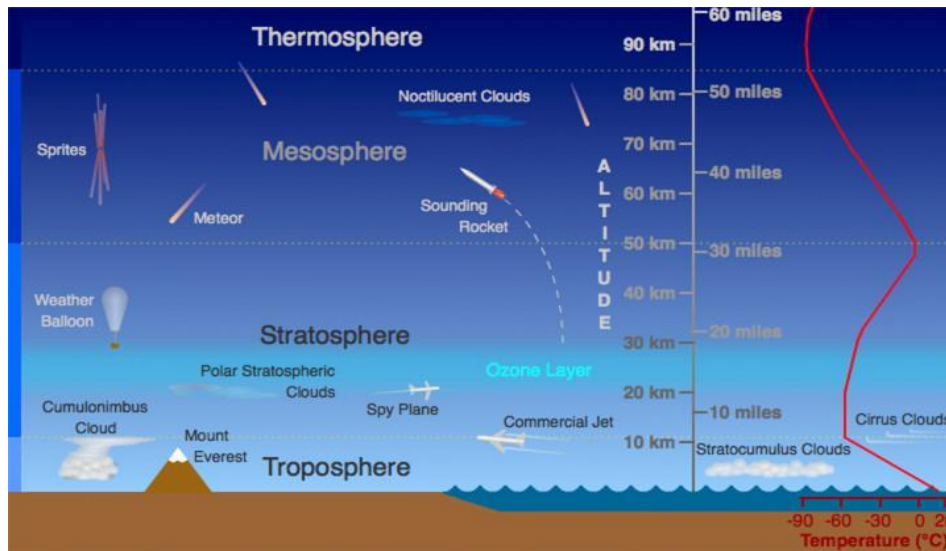
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SL 4

Choose the BEST answer and write the correct letter in the box provided for Questions 42 – 46.

Use Resource 13 below and your knowledge to answer Questions 42 – 44.

Resource 13



Source: socratic.org

42. The greenhouse effect occurs when:

- A. the moon's energy reaches earth.
- B. energy from green houses enters the earth's atmosphere.
- C. energy from the sun warms the earth's surface.
- D. green gases enter the earth.

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43. Which of the following is the correct description for the atmospheric system?

- A. It is made up of a single condensed layer.
- B. It includes the tropopause, stratosphere, mantle, and mesosphere.
- C. It is made up of stars and planets.
- D. Has distinct layers whose boundary is a pause

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44. The current ocean temperature:

- A. has not been affected by the excess heat from greenhouse gas emissions.
- B. has risen from absorbing the excess heat from greenhouse gases.
- C. has fallen from absorbing the excess heat from greenhouse gases.
- D. is contributing to the greenhouse gases.

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Use Resource 14 below and your knowledge to answer Questions 45 & 46.

Resource 14



Source: <https://postcourier.com.pg/climate-change-information-website-launch/>

45. Which one of the following causes a climate change-related phenomenon?

- A. Planting more trees.
- B. Commitment to the Kyoto protocol.
- C. Burning coal and oil.
- D. Using solar and wind power.

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46. Which one of the following documents have been signed to manage climate change?

- A. Paris Agreement.
- B. Global Warming Protocol.
- C. Climate Change Protocol.
- D. Kyoto Framework.

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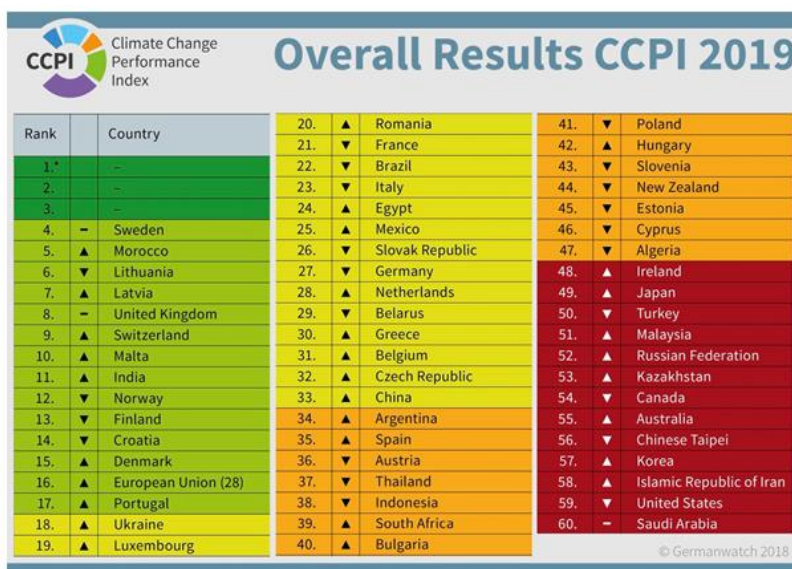
PART I: Climate Change

47. List TWO internationally accepted strategies developed to mitigate climate change effects.

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Use the resource below and your knowledge to answer Questions 48 – 51.

Resource 15



Overall Results CCPI 2019

| Rank | Country | Rank | Country | Rank | Country |
|------|-----------------------|------|-------------------|------|----------------------------|
| 1.* | – | 20. | ▲ Romania | 41. | ▼ Poland |
| 2. | – | 21. | ▼ France | 42. | ▲ Hungary |
| 3. | – | 22. | ▼ Brazil | 43. | ▼ Slovenia |
| 4. | – Sweden | 23. | ▼ Italy | 44. | ▼ New Zealand |
| 5. | ▲ Morocco | 24. | ▲ Egypt | 45. | ▼ Estonia |
| 6. | ▼ Lithuania | 25. | ▲ Mexico | 46. | ▼ Cyprus |
| 7. | ▲ Latvia | 26. | ▼ Slovak Republic | 47. | ▼ Algeria |
| 8. | – United Kingdom | 27. | ▼ Germany | 48. | ▲ Ireland |
| 9. | ▲ Switzerland | 28. | ▲ Netherlands | 49. | ▲ Japan |
| 10. | ▲ Malta | 29. | ▼ Belarus | 50. | ▼ Turkey |
| 11. | ▲ India | 30. | ▲ Greece | 51. | ▲ Malaysia |
| 12. | ▼ Norway | 31. | ▲ Belgium | 52. | ▲ Russian Federation |
| 13. | ▼ Finland | 32. | ▲ Czech Republic | 53. | ▲ Kazakhstan |
| 14. | ▼ Croatia | 33. | ▲ China | 54. | ▼ Canada |
| 15. | ▲ Denmark | 34. | ▲ Argentina | 55. | ▲ Australia |
| 16. | ▲ European Union (28) | 35. | ▲ Spain | 56. | ▼ Chinese Taipei |
| 17. | ▲ Portugal | 36. | ▼ Austria | 57. | ▲ Korea |
| 18. | ▲ Ukraine | 37. | ▼ Thailand | 58. | ▲ Islamic Republic of Iran |
| 19. | ▲ Luxembourg | 38. | ▼ Indonesia | 59. | ▼ United States |
| | | 39. | ▲ South Africa | 60. | – Saudi Arabia |
| | | 40. | ▲ Bulgaria | | |

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Source: <https://www.bankexamstoday.com/2018/12/highlights-climate-change-performance.html>

48. Explain ONE of the potential effects that unpredictable weather patterns from climate change can have on the Pacific Island environment.

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49. Explain how climate change phenomena can induce diseases in the Pacific region.

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GEOGRAPHY

2022

(For Scorer only)

| STRANDS | | Weighting | Scores | Check Scorer | AED Check |
|-------------------|---------------------------|------------|--------|--------------|-----------|
| STRAND 1: | PHYSICAL ENVIRONMENT | 20 | | | |
| STRAND 2: | RESOURCES AND THEIR USES | 20 | | | |
| SECTION 3: | POPULATION AND SETTLEMENT | 20 | | | |
| SECTION 4: | GLOBALISATION AND TOURISM | 20 | | | |
| SECTION 5: | ENVIRONMENTAL ISSUES | 20 | | | |
| TOTAL | | 100 | | | |