CANDIDATE NAME

REGISTER NUMBER

CLASS

HUMANITIES
Secondary Four Normal (Academic)
Paper 2 Geography

2175/02
11 August 2020
1 hour 40 minutes

Candidates answer on the Question Paper.

READ THESE INSTRUCTIONS FIRST

Write your index number and name on all the work you hand in.
Write in dark blue or black pen.
You may use a HB pencil for any diagrams or graphs.
Do not use staples, paper clips, glue or correction fluid.

Section A
Answer Question 1.

Section B
Answer Question 2.

Section C
Answer **one** question.

Candidates should support their answers with the use of relevant examples.
Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

At the end of the examination, fasten all your work securely together.
The number of marks is given in brackets [ ] at the end of each question or part question.

For Examiner's use		
Section A		/ 13
Section B		/ 12
Section C		/ 25
Total		/ 50
% / Grade		/

Setter: Mdm Syafiqah   **Parent's / Guardian's Signature:** ………………….………...

*This document consists of **20** printed pages, including this cover page.*

Do not turn over the page until you are told to do so.

Section A

Answer Question 1 from this section.

1   Some students were investigating local weather conditions.

A group of students studied temperature and rainfall. They had one guiding question to answer 'Does temperature affect rainfall?'

The students carried out the investigation in their school field. They took the recordings once a day over a period of 7 days, using maximum and minimum thermometer, rain gauge and sling psychrometer.

Study Table 1, which shows their findings for their investigation.

Table 1

Results of weather data collected

Day	Temperature (°C)	Rainfall (mm)	Relative Humidity (%)
1	29	50	87
2	26	65	60
3	27	35	90
4	28	44	89
5	32	66	64
6	33	80	55
7	31	51	68

(a)   Using Table 1, calculate the average temperature from Day 1 to 7. Round up your answer to 1 decimal place.

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(b)   Describe the steps the students need to take to measure rainfall.

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(c) Using data in Table 1, plot a scatter graph to show the relationship between temperature (°C) and rainfall (mm). Draw the line of best fit.

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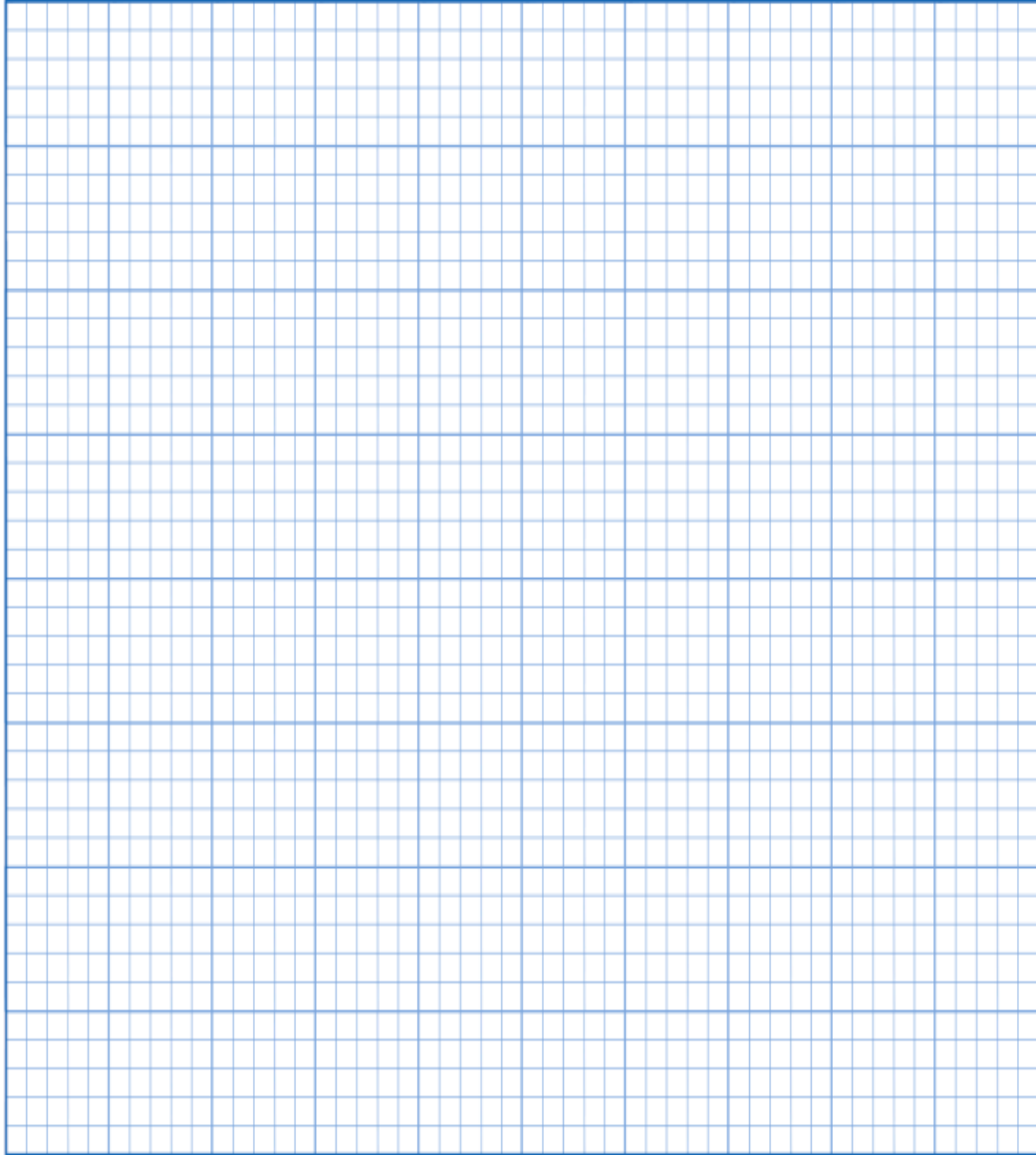
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(d) The students came up with a hypothesis, 'When temperature increases, rainfall decreases.'

With reference to Table 1 and scatter graph drawn in (c), comment on the relationship between temperature and rainfall.

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(e) Suggest a guiding question that could link temperature and relative humidity and describe ways in which the students can ensure that their data collection is accurate when measuring temperature.

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Section B

Answer Question 2 from this section.

2 (a) Study Fig. 1, which shows the number of tourist arrivals in three countries in Africa between 2010 and 2015.

Tourist arrivals in three countries in Africa
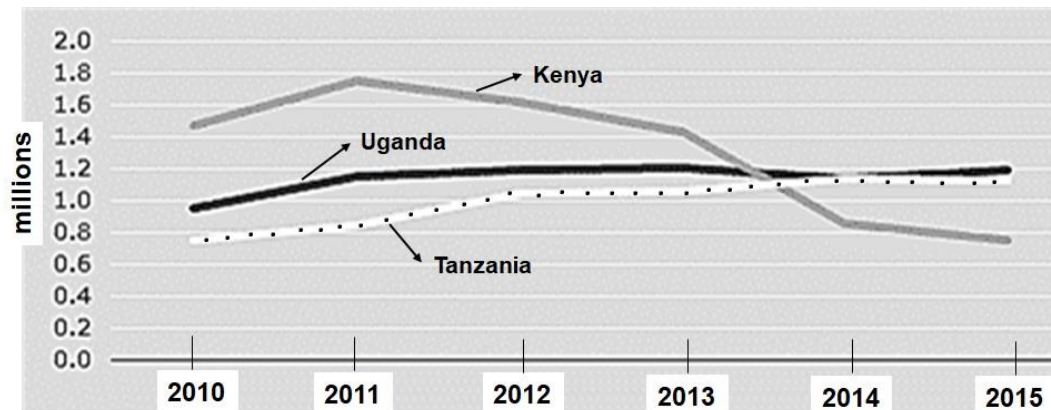
Fig. 1

Using Fig. 1, compare the trends in the number of tourist arrivals for Kenya and Uganda from 2010 to 2015.

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(b) Study Fig. 2, which shows an extract in the news about a virus outbreak.

Thailand recommends against visiting Singapore due to virus outbreak

Thailand's Health Ministry included Singapore in a recommendation on countries to avoid due to the coronavirus outbreak, spelling another blow for Singapore's tourism sector. "As more countries have been affected by Covid-19, Thailand will have a higher risk of imported Covid-19 cases," said Dr Thanarak Phaliphat, deputy director-general of the Disease Control Department. Indonesia and Taiwan have issued travel alerts telling their citizens to take precautions if visiting Singapore. The Singapore Tourism Board (STB) has projected a 25 per cent to 30 per cent drop in visitor arrivals this year as the deadly coronavirus continues its global spread.

The Straits Times, March 9 2020

Fig. 2

Using Fig. 2 and your own studies, explain how an outbreak of disease can cause a decline in tourist arrivals in Singapore.

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(c) 'Disposable income is the main reason for the growth of global tourism.'

How far do you agree with this statement? Support your answer with examples.

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Section C

Answer **either** Question 3 **or** Question 4 from this section.

3 (a) Study Fig. 3, which shows the amount of rainfall received in South Asia in June.

Amount of rainfall received in South Asia in June
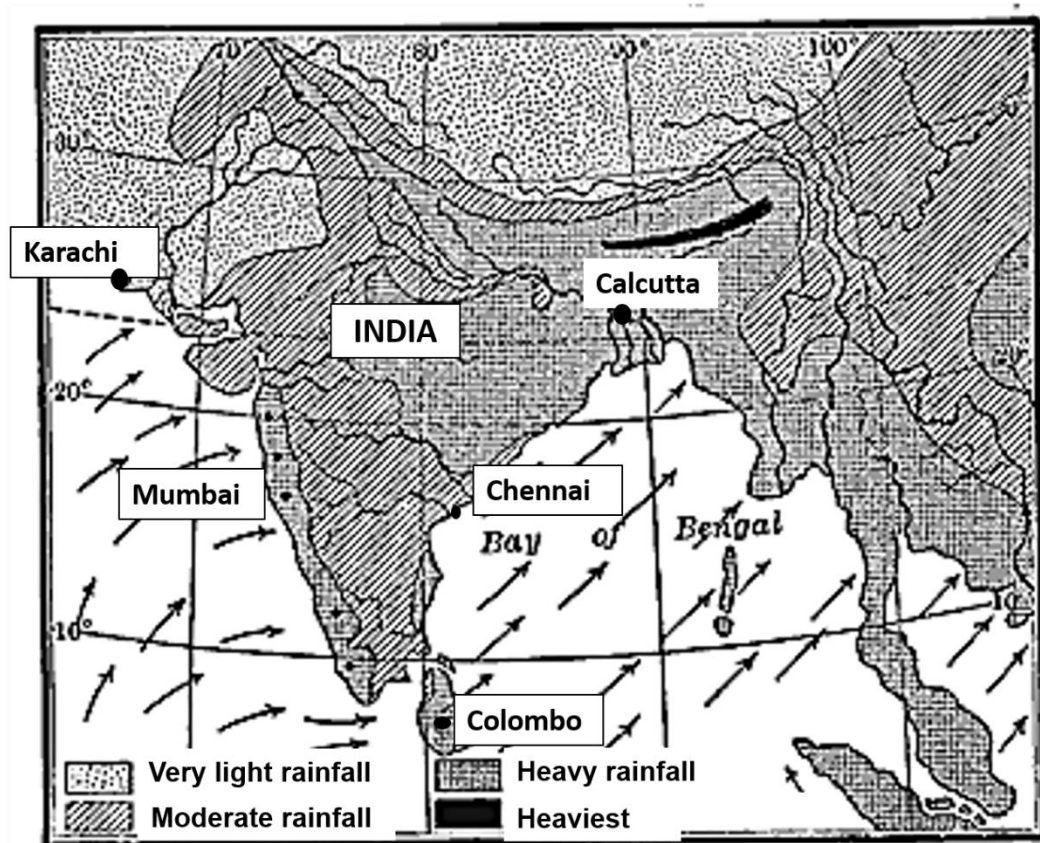
Fig. 3

Identify the regional wind system shown in Fig. 3 and account for the amount of rainfall received in South Asia in June.

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(b) Study Fig. 4, which shows a climograph of London, United Kingdom.

Climograph of London, United Kingdom

Latitude 51.5°N
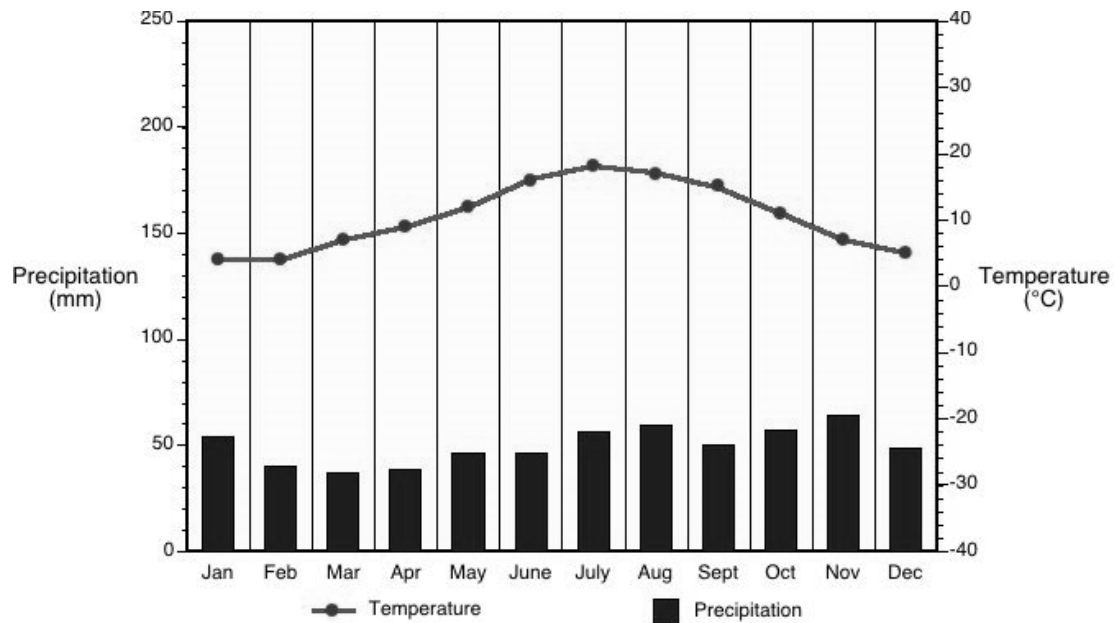
Fig. 4

Using Fig. 4 and your own studies, describe and account for the climate in London, United Kingdom.

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(c) Study Fig. 5, which shows the greenhouse effect and the enhanced greenhouse effect.

Greenhouse effect and enhanced greenhouse effect
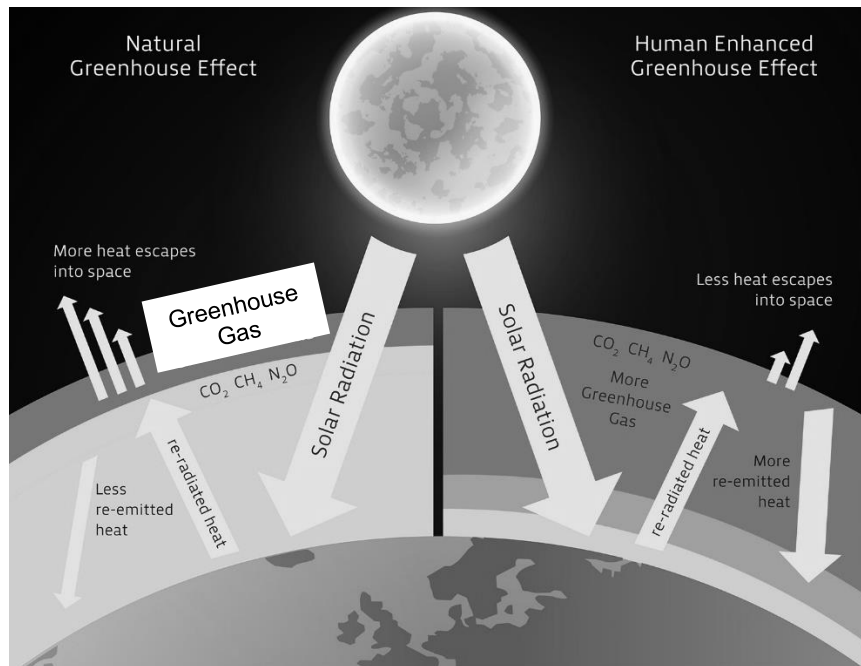
Fig. 5

Using Fig. 5, compare the differences between the greenhouse effect and the enhanced greenhouse effect.

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(d) Explain how deforestation and urbanisation cause an enhanced greenhouse effect.

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(e) Describe the Green Mark Scheme and assess its effectiveness in helping to reduce greenhouse emissions in Singapore.

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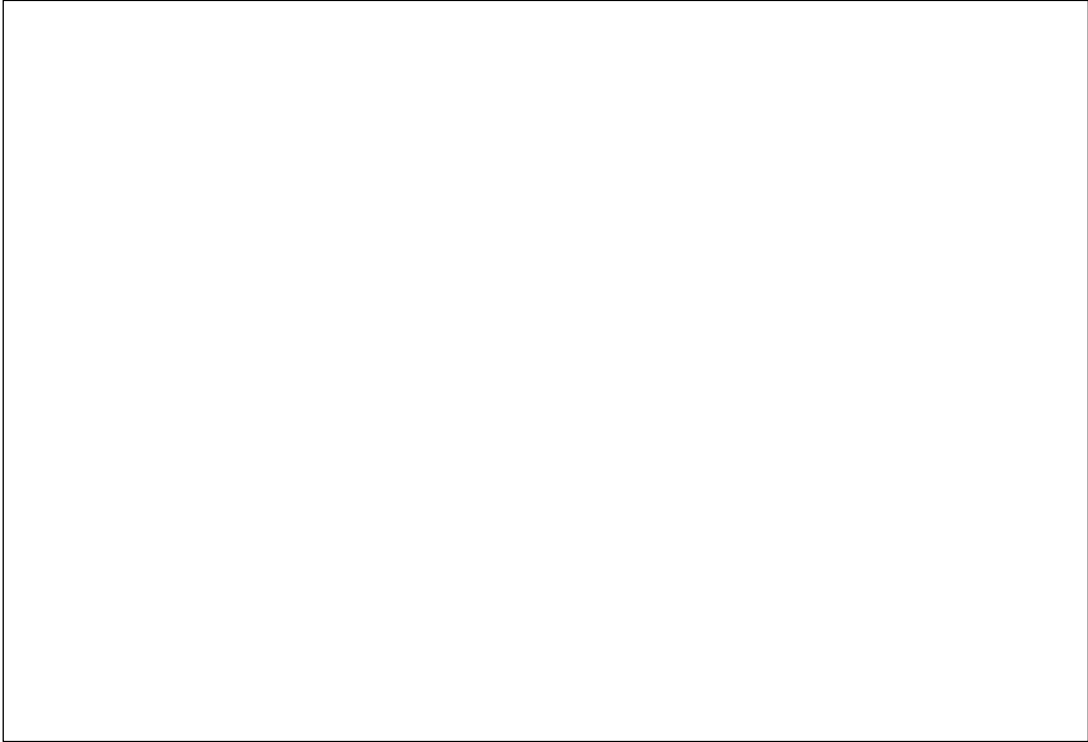
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(f) 'Cloud cover is the only factor influencing the temperature of locations.'

How far do you agree with this statement? Support your answers with examples.

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4 (a) Explain why tectonic plates move. You may illustrate your answer with an annotated diagram.

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(b) Study Fig. 6, which shows the characteristics of two types of lava.

Characteristics of two types of lava

Type of lava	Silica Content	Viscosity	Gas Content
A	Least (less than 50%)	Low	Low (1-2%)
B	Most (more than 70%)	High	High (4-6%)

Fig. 6

Using Fig. 6 and your own studies, explain how the characteristics of the two types of lava can influence the types of volcanoes formed.

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(c) Study Fig. 7, which shows information about the Port Au Prince, Haiti earthquake which happened in January 2010.

Port Au Prince, Haiti earthquake in January 2010

Port Au Prince, Haiti earthquake	
Date	January 12, 2010
Value on Richter scale	7.0
Number of deaths	230 000
Distance from the epicentre	15km
Depth of focus	13km
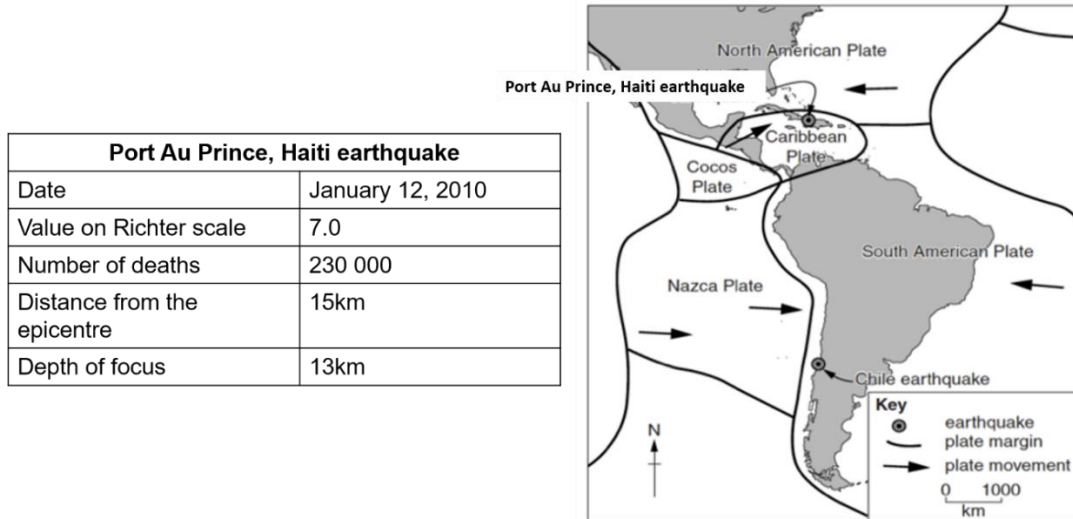
Fig. 7

Using Fig. 7 and your own studies, describe how the earthquake occurred in Port Au Prince, Haiti and suggest a possible reason for the extent of deaths.

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(d) Study Fig. 8a, which shows the relief of the western coast of the Indian Peninsula and Fig. 8b, which shows the amount of rainfall received in that same region.

Relief of the western coast of the Indian Peninsula
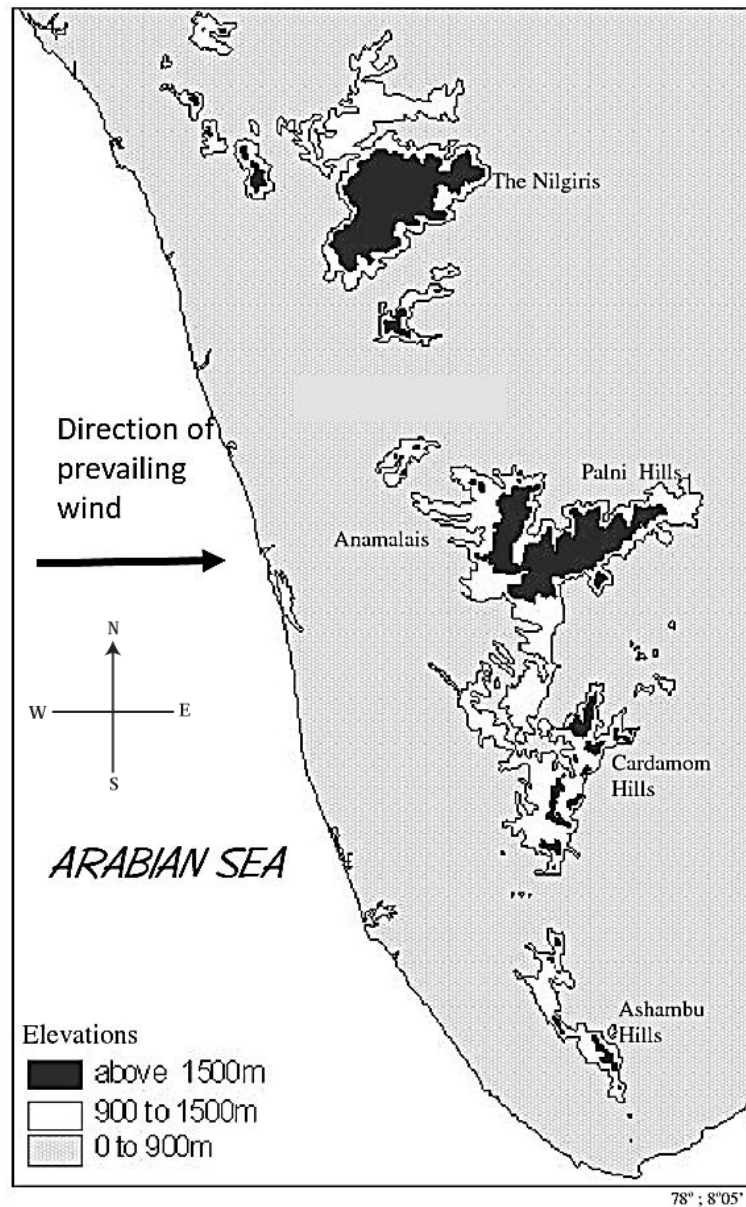
Fig. 8a

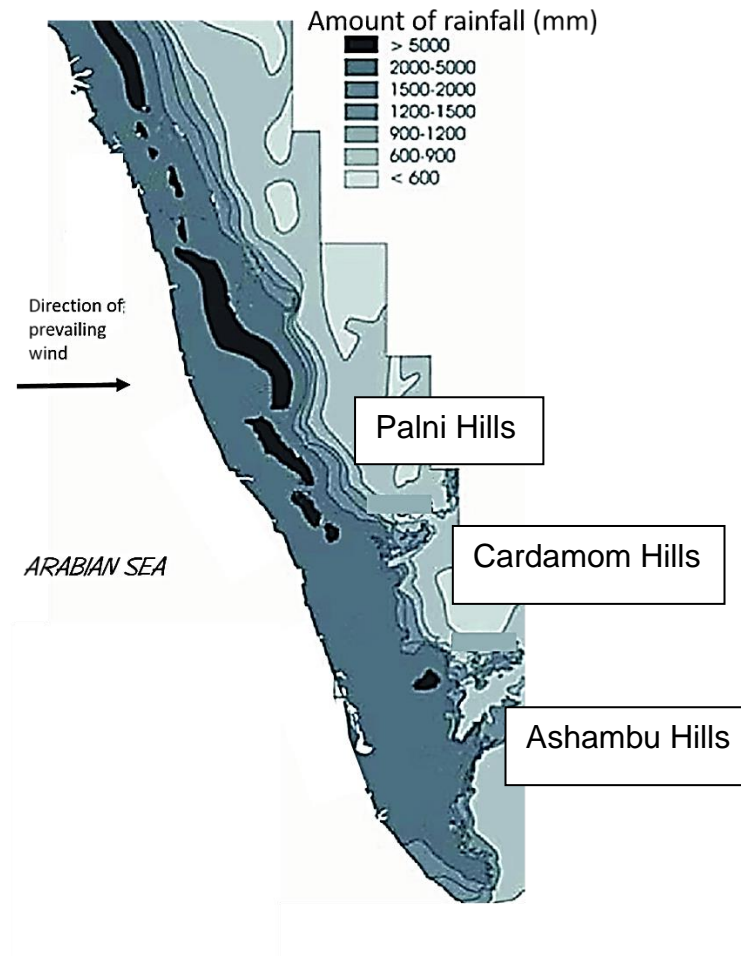**Amount of rainfall received on the western coast of the Indian Peninsula**

Fig. 8b

Using information in Figs. 8a and 8b, describe the relationship between the elevation and the amount of rainfall. Account for the distribution of rainfall in the western coast of the Indian Peninsula.

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(e) Using a named example, explain how climate change causes sea level to rise.

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(f) 'Volcanoes are only found at divergent plate boundaries.'

How far do you agree with this statement? Support your answers with examples.

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