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GEOGRAPHY

PAPER 1 5109/1

Friday **26 MAY 2023** 9:00 A.M.–10:00 A.M.

Additional materials:
Ordnance Survey Map

MINISTRY OF EDUCATION NATIONAL EXAMINATIONS

BAHAMAS GENERAL CERTIFICATE OF SECONDARY EDUCATION

INSTRUCTIONS AND INFORMATION TO CANDIDATES

Do not open this booklet until you are told to do so.

Write your school number, candidate number, name and initials in the spaces provided at the top of this page.

Answer **ALL** questions. This paper accounts for 30% of the total marks. There are **33** questions in this booklet.

For each of questions 1 through 30;

- (a) **FOUR** suggested answers are given A, B, C, D. You are to circle the letter next to the correct answer;
- (b) Each question carries one mark.

For each of questions 31 through 33;

- (a) Your answer must be recorded in the space provided for each question.
- (b) The marks for each part question are indicated in brackets [].



This question paper consists of 16 printed pages.

1. Where does the process of sea-floor spreading occur?

- A. At constructive margins
- B. At conservative margins
- C. At destructive margins
- D. At a subduction zone

2. Which type of stress squeezes rock until it folds or breaks?

- A. Conservative
- B. Compression
- C. Shearing
- D. Tension

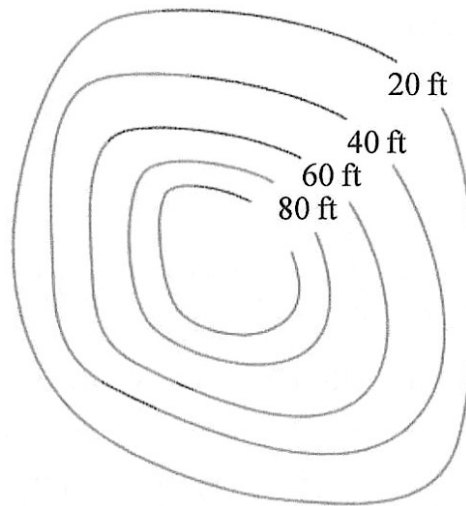
3. The table below shows some characteristics of composite volcanoes. Which other characteristics can be added to the table?

Characteristics of Composite Volcanoes	
1.	Acidic lava, which is very viscous
2.	Steep-sided
3.	Violent eruptions

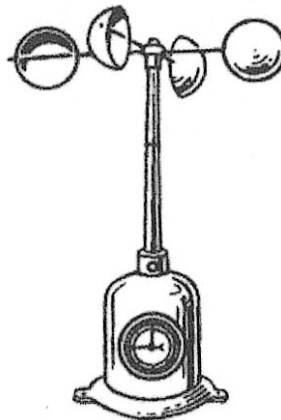
- A. Alternating layers of ash and lava
- B. Basic lava which is runny
- C. Gently sloping sides
- D. Low and wide



4. What is the vertical interval between the contour lines?



- A. 10 feet
B. 20 feet
C. 30 feet
D. 40 feet
5. What does the weather instrument shown in the diagram below measure?

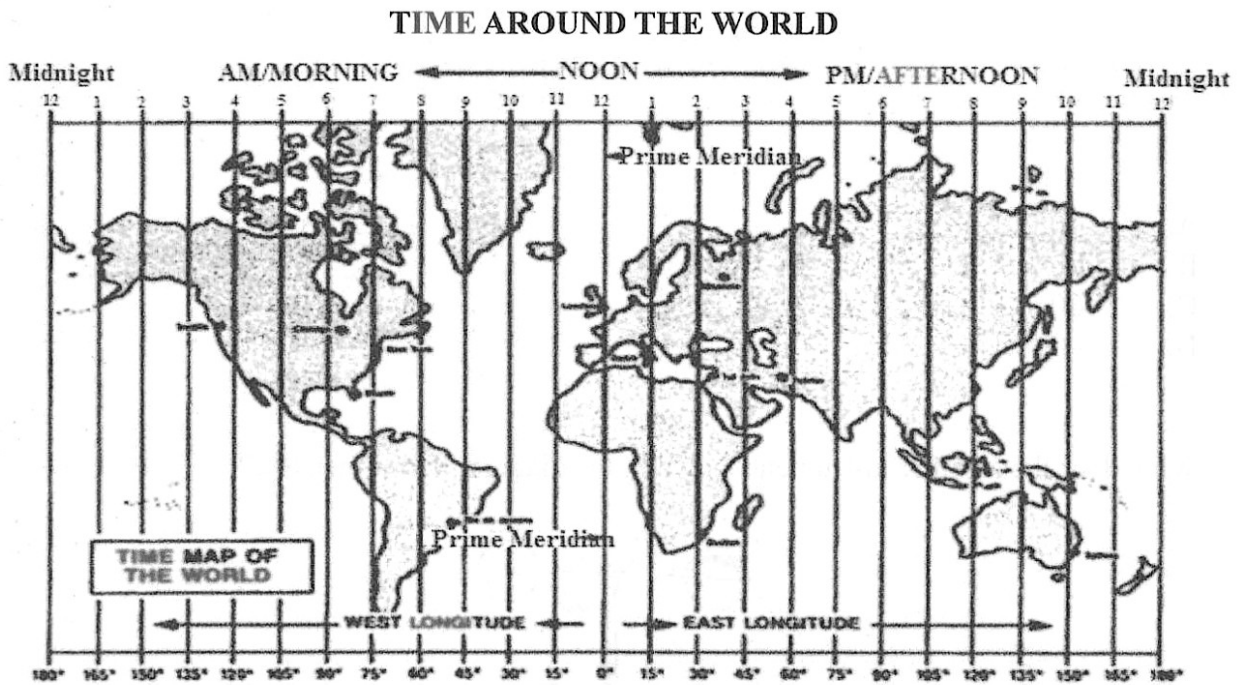


- A. Air pressure
B. Humidity
C. Temperature
D. Wind speed

6. Which factor limits the economic development of limestone landscapes?

- A. Plenty of surface water
- B. Smooth terrain
- C. Surface collapse
- D. Thick, fertile soils

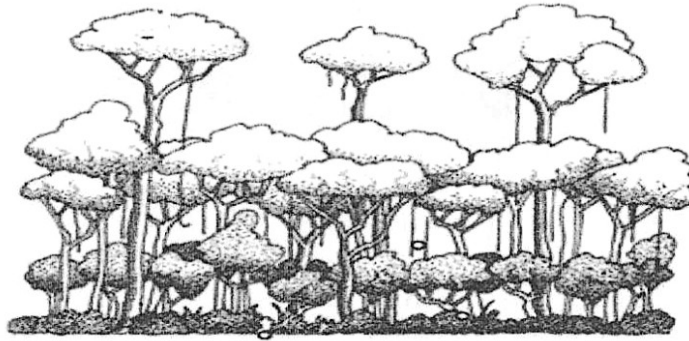
7. The diagram below shows the time zones around the world. If the time at 0° Longitude is 6.00 a.m. What will be the time at 60° W Longitude?



- A. 1:00 a.m.
- B. 2:00 a.m.
- C. 10:00 p.m.
- D. 12:00 p.m.

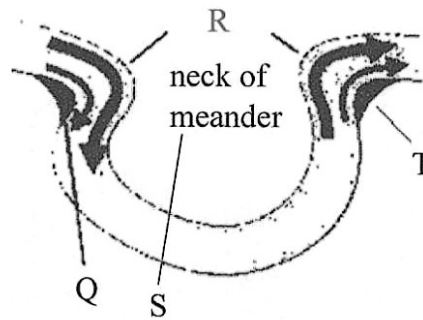


8. Which biome has the vegetation shown?



- A. Coniferous forest
 - B. Hot desert
 - C. Tropical savanna grassland
 - D. Tropical rainforest
9. Which chemical weathering causes rocks to have a reddish-brown colour on the surface known as rusting?
- A. Carbonation
 - B. Frost action
 - C. Hydrolysis
 - D. Oxidation

10. The diagram below shows a meander. Where is erosion taking place?



- A. At Q
B. At R
C. At S
D. At T
11. Why are MEDCs able to recover faster from a natural disaster than LEDCs?
- A. Availability of money and insurance
B. Early warnings are often ignored
C. Inadequate infrastructure
D. Heavily dependent on overseas aid
12. Which type of coral reef consists of a narrow platform located close to the coast and separated from it by a shallow lagoon?
- A. Atoll
B. Barrier reef
C. Fringing reef
D. Patch reef



13. Where along a river's course will estuaries develop?
- A. Middle stage
 - B. Upper stage
 - C. Old Age stage
 - D. Youthful stage
14. Which type of renewable energy resource is best suited for The Bahamas?
- A. Coal
 - B. Oil
 - C. Solar
 - D. Wind
15. Which of the following is an economic benefit of mining gold in Guyana?
- A. Heavy lorries cause traffic congestion
 - B. Luxuriant vegetation
 - C. Scenic beauty
 - D. Provides jobs
16. What term is used to describe the emigration of professionals such as doctors, nurses and teachers from a country?
- A. Brain-drain
 - B. Counter-urbanisation
 - C. Commuting
 - D. Refugees

17. What is the correct arrangement of settlements in order of size from largest to smallest?
- A. City – town – conurbation – hamlet – village
 - B. Conurbation – city – town – village – hamlet
 - C. Hamlet – conurbation – village – town – city
 - D. Town – village – city – conurbation – hamlet
18. The industrial system has inputs, processes and outputs. What would be a physical input for a Bahamian Jam Factory?
- A. Bottling
 - B. Factory maintenance
 - C. Guava Jam
 - D. Land
19. How has human activity in river basins increased the risk of damage from flooding?
- A. Building homes away from the floodplain
 - B. Deforestation of the upper basin
 - C. Afforestation in upland areas
 - D. Raising the height of river banks
20. Which activity would an ecotourist participate in?
- A. Junkanoo
 - B. Jet ski ride
 - C. Jungle trekking
 - D. Taking a bus tour
21. Which type of climate experiences very low rainfall, less than 250 mm per year?
- A. Equatorial climate
 - B. Desert climate
 - C. Temperate climate
 - D. Mediterranean climate



22. What do government agencies provide to draw industries to particular areas?

- A. Land
- B. Raw material
- C. Goods
- D. Tools

23. Which of the following is a warm front?

- A. 
- B. 
- C. 
- D. 

24. Which of the following has the largest sphere of influence?

- A. A furniture shop
- B. A newsagent
- C. A supermarket
- D. A corner shop

25. When a country spends more on its visible imports than it earns from its visible exports, it is described as having what?

- A. A trade bloc
- B. A trade deficit
- C. Income
- D. Remittances

Study the map extract of Eleuthera, Bahamas to answer questions 26–31.

26. What is the direction of Gregory Town (4309) **from** Alice Town (5004)?
- A. Northeast
 - B. Northwest
 - C. Southeast
 - D. Southwest
27. Which is the six figure grid reference of the lighthouse near Alice Town settlement in the southern section of the map?
- A. 496038
 - B. 499037
 - C. 038509
 - D. 039497
28. What man-made feature is found in grid square 5104?
- A. Police Station
 - B. School
 - C. Church
 - D. Road
29. What is the approximate length of the secondary road in kilometres from grid reference 450078 to the point where it crosses grid square 480061?
- A. 2 kilometres
 - B. 2.5 kilometres
 - C. 3 kilometres
 - D. 3.5 kilometres
30. What type of settlement pattern is shown in Gregory Town grid square 4309?
- A. Nucleated
 - B. Diffused
 - C. Linear
 - D. Scattered



31. (a) What is the dominant **natural** vegetation shown on the map?

_____ [1]

- (b) Why are there no hotels located near to Hamilton Land Beach in grid 4607 and 4707 which is located in the centre of the northern coast?

_____ [1]

- (c) What **TWO** factors account for the location of the Poultry Farm in grid square 5005?

1. _____

2. _____
_____ [2]

- (d) Identify **THREE** services seen in Alice Town in grid squares 5003 **OR** 5004.

5003

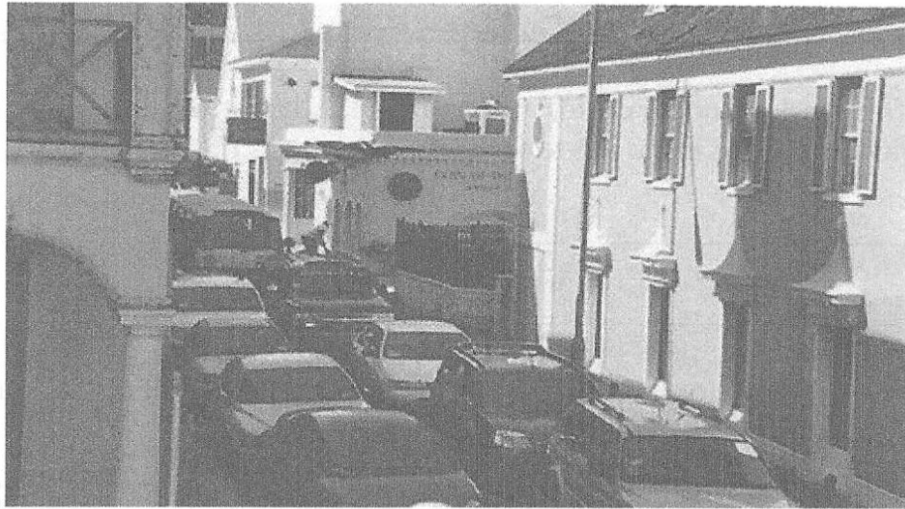
1. _____
2. _____
3. _____

OR

5004

1. _____
2. _____
3. _____ [3]

32. The photo shows one urban problem relating to the CBD of downtown Nassau, The Bahamas.



- (a) Identify the urban problem shown in the photo above.

_____ [1]

- (b) What does '**CBD**' stand for?

_____ [1]

- (c) Suggest **TWO** reasons why traffic in urban areas has increased.

1. _____

2. _____

_____ [2]



(d) Explain **THREE** damaging effects of increased traffic in urban areas.

1. _____

 2. _____

 3. _____

- [3]

(e) Suggest **THREE** solutions that can be implemented to overcome the problem of increased traffic.

1. _____

 2. _____

 3. _____

- [6]

33. The photo shows a local fisherman at the Potter's Cay Dock in New Providence, The Bahamas.



- (a) (i) What type of industry is fishing?
_____ [1]
- (ii) Name **TWO** types of shellfish that are caught and sold commercially by Bahamian fishermen.
1. _____
2. _____ [2]
- (b) Identify **ONE** fishing method that is banned in The Bahamas.
_____ [1]
- (c) Explain **TWO** differences between subsistence and commercial fishing.

_____ [2]



(d) Explain **TWO** economic benefits of the fishing industry in The Bahamas.

1. _____

2. _____
_____ [4]

TOTAL: 60 MARKS

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FOR EXAMINER'S USE ONLY	
1-30	
31a	
31b	
31c	
31d	
32a	
32b	
32c	
32d	
32e	
33a	
33b	
33c	
33d	
TOTAL	



School Number	Candidate Number
Surname and Initials	

GEOGRAPHY

PAPER 2 5109/2

Monday **5 JUNE 2023** 9:00 A.M.–11:30 A.M.

Additional materials:
None

MINISTRY OF EDUCATION NATIONAL EXAMINATIONS

BAHAMAS GENERAL CERTIFICATE OF SECONDARY EDUCATION

INSTRUCTIONS AND INFORMATION TO CANDIDATES

Do not open this booklet until you are told to do so.

Write your school number, candidate number, surname and initials in the spaces provided at the top of this page.

This paper accounts for 50% of the total marks. There are 8 questions in this booklet.

Candidates must answer any **FOUR** questions from a total of eight questions. If you attempt more than **FOUR** questions only the first **FOUR** answers will be marked. All questions carry twenty-five marks. The mark for each part-question is given in brackets [].

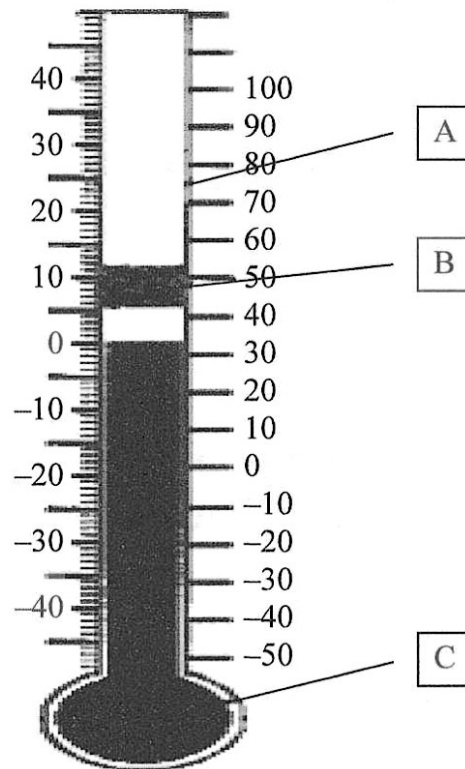
ALL candidates are required to write their answers in the spaces provided for each question.



This question paper consists of 29 printed pages and 3 blank pages.

Question 1

The diagram below shows a weather instrument used at a recording station.



- (a) Label the parts (A – C)

A. _____

B. _____

C. _____ [3]

- (b) (i) What is the name of this instrument?

_____ [1]



- (ii) Describe how this instrument works.

[4]

- (c) Name **TWO** commonly used unit of measurements that would be seen on the weather instrument shown above.

1. _____

2. _____ [2]

- (d) The maximum temperature at Sir Lynden Pindling International Airport on Saturday was 29.4 °C. The minimum temperature recorded was 25.6 °C

- (i) What was the daily range of temperature for Saturday? Show your working.

_____ [2]

- (ii) Study the table below which shows the hourly temperature data for a recording station. Calculate the mean daily temperature. Show your working.

Time (Hour)	Temperature (°C)
10:00 am	18 °C
11:00 am	21 °C
12:00 am	22.1 °C

_____ [2]

[Turn over

- (e) (i) In the last 100 years, the average temperature of the Earth has been increasing. What term is used to describe this increase in world temperatures?

_____ [1]

- (ii) Name **FOUR** greenhouse gases.

1. _____

2. _____

3. _____

4. _____ [4]

- (iii) Explain **THREE** problems caused by rising global temperatures for Small Island nations such as The Bahamas.

1. _____

2. _____

3. _____

_____ [6]

[TOTAL: 25 MARKS]



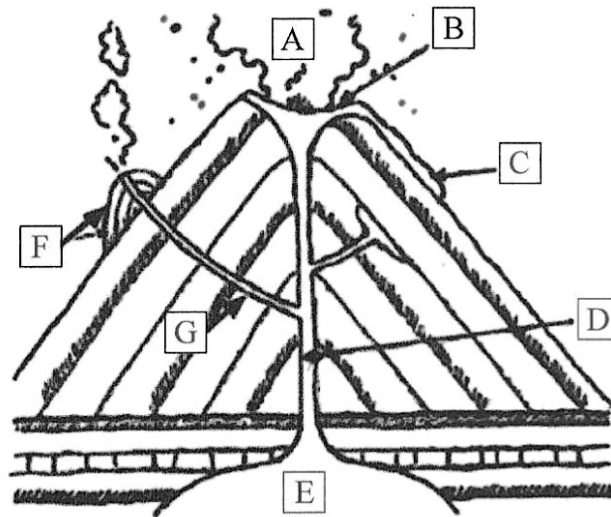
Question 2

- (a) Define the term 'volcano'

[2]

- (b) (i) Use the following words to label the diagram below.

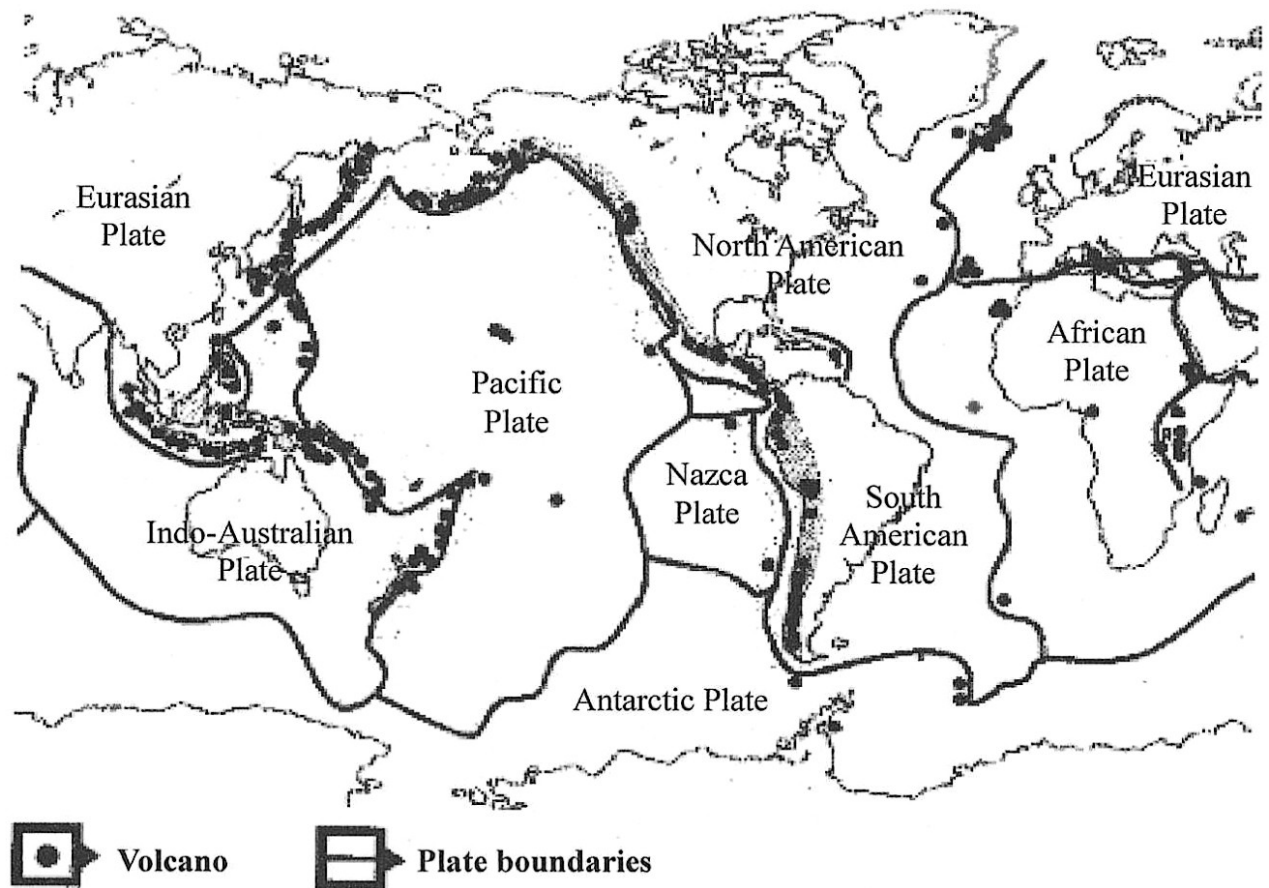
Ash Cloud	Secondary Cone	Pyroclastic Flow
Vent	Crater	Lava Flow
		Magma Chamber



- A. _____
B. _____
C. _____
D. _____
E. _____
F. _____
G. _____

[7]

The map below shows the distribution of volcanoes.



(ii) Where are most volcanoes located?

_____ [1]

(c) (i) Name **ONE** active volcano found in the Caribbean region and give the name of the island it is located on.

Name of volcano: _____

Island: _____ [2]

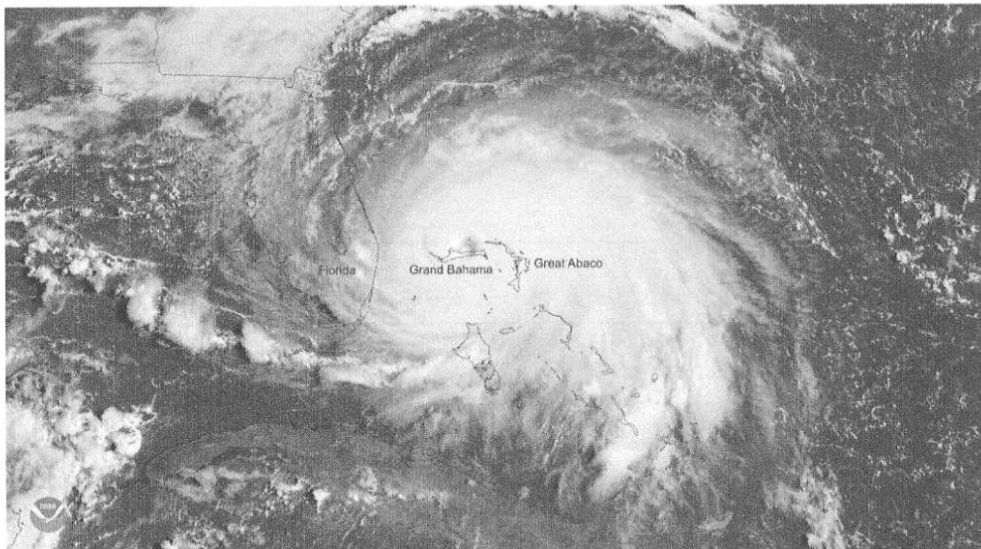
- (ii) Explain **TWO** reasons why Caribbean countries are vulnerable to natural hazards, such as volcanoes and hurricanes.

1. _____

2. _____

_____ [4]

- (d) The diagram below shows Hurricane Dorian passing over The Bahamas.



- (i) What is a hurricane?

_____ [2]

- (ii) When is the period of the official hurricane season in the Caribbean?

_____ [1]



(iii) Describe **TWO** weather characteristics of the hurricane eye.

1. _____

2. _____

_____ [2]

(iv) Which agency in The Bahamas is responsible for hurricane preparedness and disaster?

_____ [1]

(v) Discuss **THREE** safety measures that are undertaken to minimise the impact of hurricanes in The Bahamas.

1. _____

2. _____

3. _____

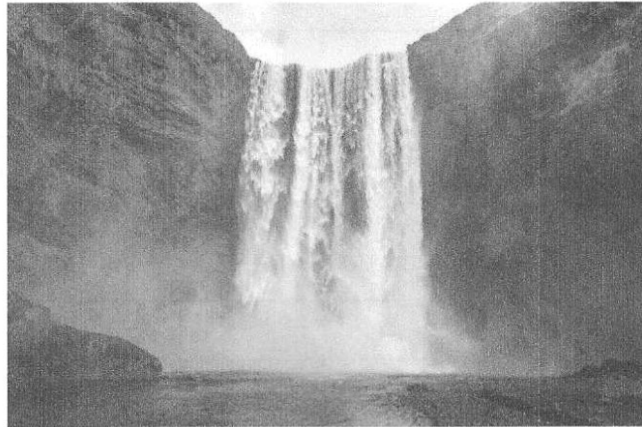
_____ [3]

[TOTAL: 25 MARKS]



Question 3

The picture below shows a river feature.



- (a) (i) Name the river feature shown in the picture above.

_____ [1]

- (ii) Where along a river's course will this feature develop?

_____ [1]

- (iii) Explain how the feature shown may have been formed. (You may draw labelled diagrams in the space provided below to help.)

_____ [4]

[Turn over



- (b) Describe the cross profile of a river's course by completing the table below.

Course	Gradient	Valley and channel shape
Upper	1. _____	3. _____ Narrow, shallow channel
Middle	Medium	Gently sloping valley sides Wider V Shaped
Lower	2. _____	Very wide, almost flat valley 4. _____

[4]

- (c) Name the processes of river transportation given in the statements below.

- (i) Small particles like silt and clay are carried along by the water.

- (ii) Large particles like boulders and rocks are pushed along the river bed by the force of the water.

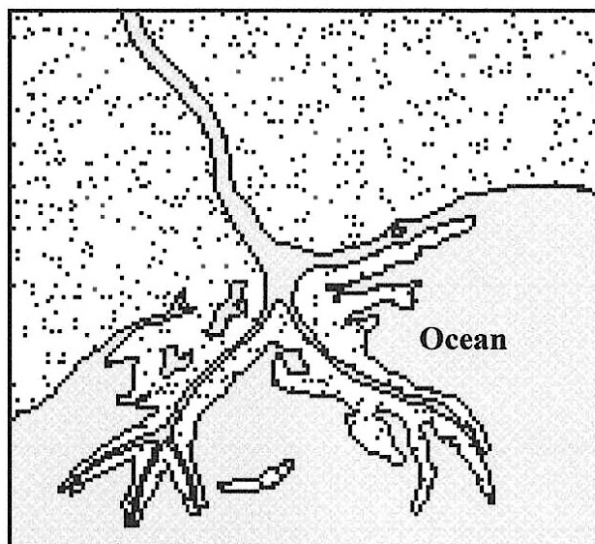
- (iii) Soluble materials dissolve in the water and are carried along.

- (iv) Small pebbles and stones are bounced along the river bed by the force of the water.

_____ [4]



- (d) (i) Identify the type of delta shown in the diagram below



_____ [1]

- (ii) List the names of **TWO** river deltas.

1. _____ 2. _____ [2]

- (iii) Explain **TWO** conditions needed for the formation of a delta.

1. _____

2. _____

_____ [4]

- (iv) Discuss **TWO** benefits of living near deltas for people.

1. _____

2. _____

_____ [4]

[TOTAL: 25 MARKS]

[Turn over

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Question 4

(a) Define the population terms listed below.

(i) Birth rate

 _____ [1]

(ii) Life expectancy

 _____ [1]

(b) (i) Other than birth rate, state **TWO** main factors that cause changes in the population size of a country.

1. Birth rate

2. _____

3. _____ [2]

(ii) Describe the birth rate of a country with an ageing population.

_____ [1]

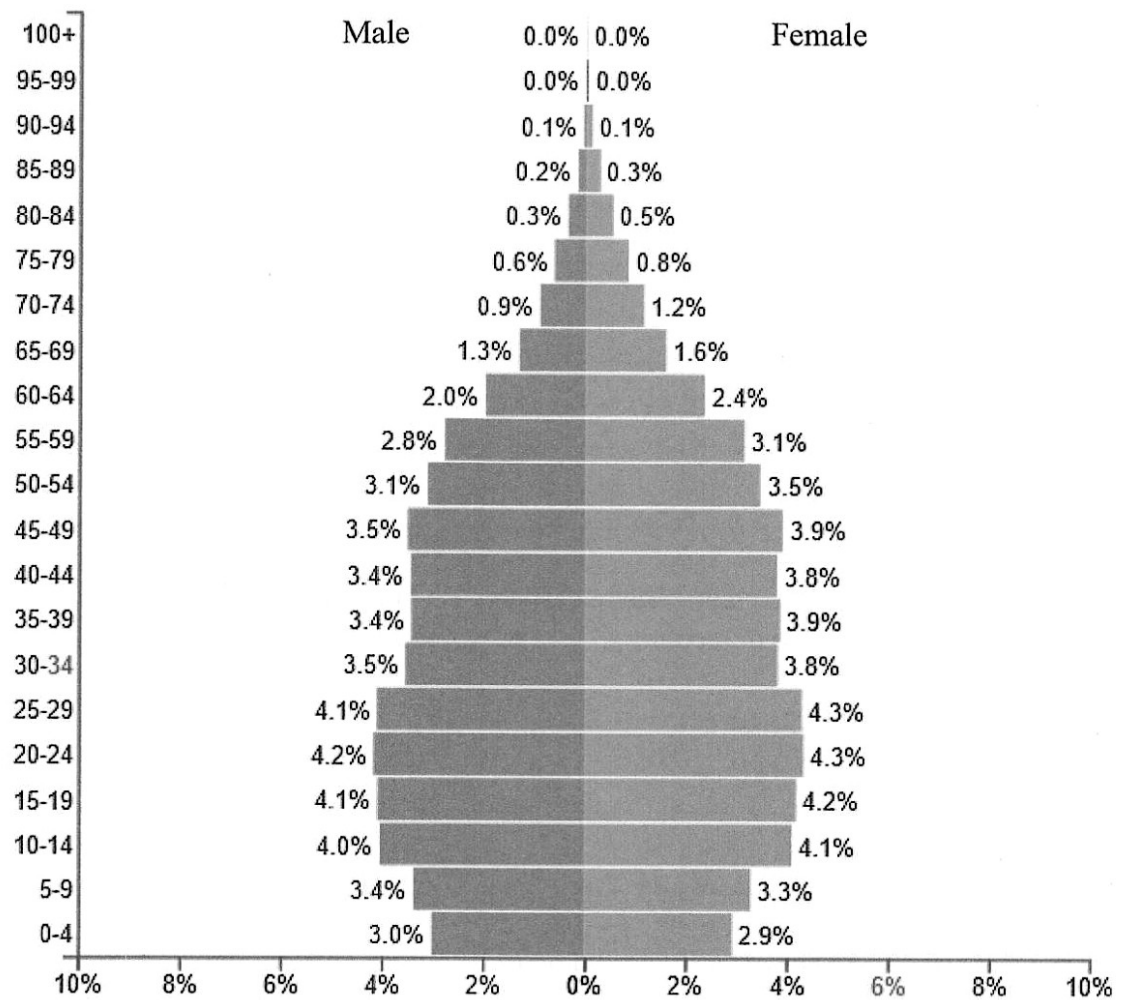
(c) Calculate the population densities for Barbados and Guyana and write the answers in the table below to the nearest whole number.

Country	Population	Area (km ²)	Density (persons per km ²)
Barbados	287,326	_____	677
Guyana	786,013	214,969	_____
Haiti	11,402,528	27,750	411
Jamaica	2,959,501	10,901	272

[2]



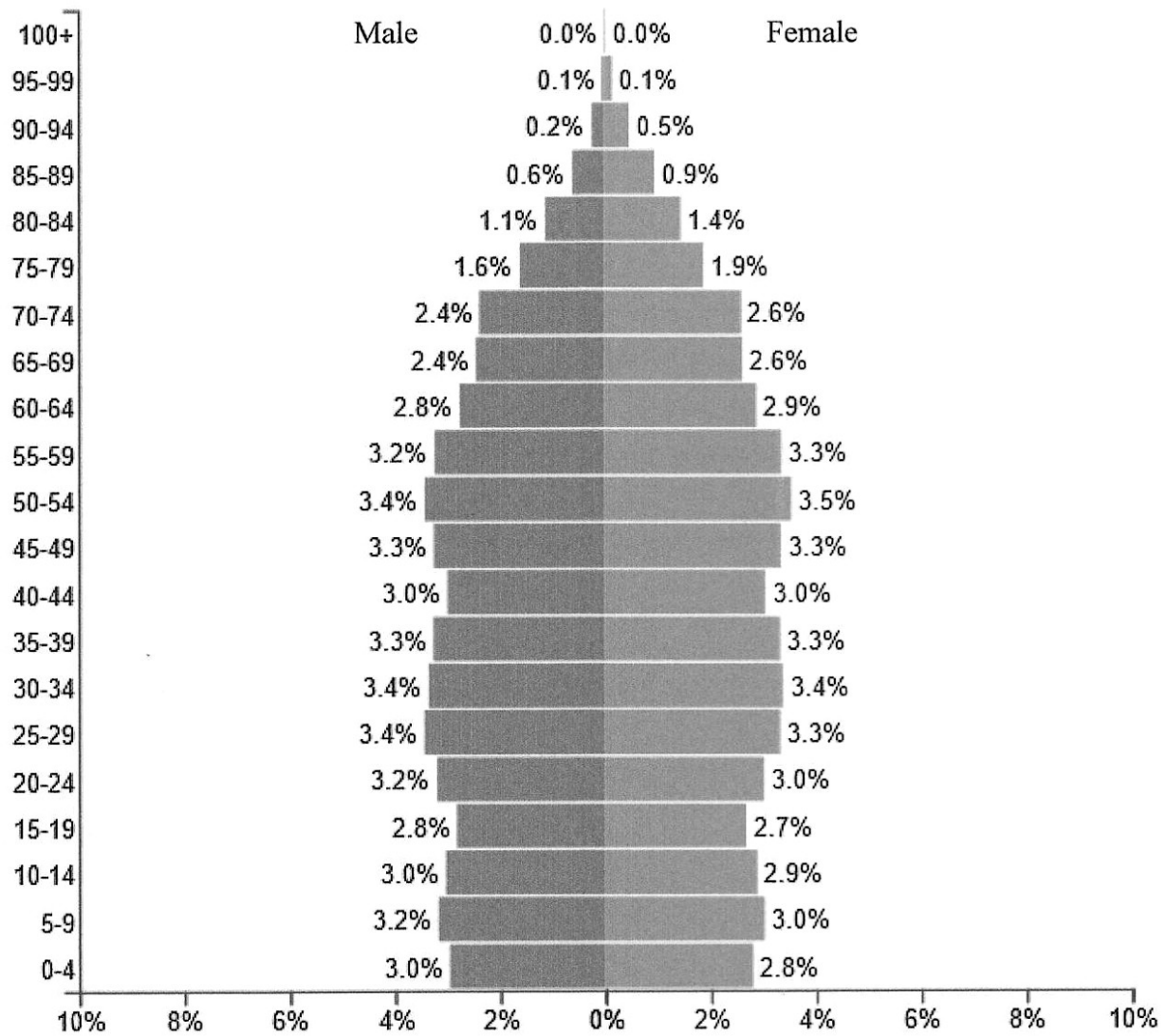
- (d) The diagram below provides data relating to the population of The Bahamas from 2019.



- (i) What name is given to the above diagram? [1]
- _____
- (ii) What percentage of the population of The Bahamas is aged 0–4? [1]
- _____
- (iii) Which age group has the highest number of males? [1]
- _____



The diagram below shows the data for the United Kingdom (2019).



- (iv) Describe **TWO** ways in which the population data for the United Kingdom is different from that of The Bahamas.

[2]

- (v) Discuss **TWO** implications suggested by the population data for future government spending in The Bahamas?

[4]

- (e) (i) What is overpopulation?

[1]

- (ii) Name **ONE** country that is considered to be underpopulated.

[1]

- (iii) Explain **TWO** social impacts and **ONE** environmental impact of rapid population growth.

Social impacts

1. _____

2. _____

[2]

Environmental impact

[1]



(iv) Describe **TWO** strategies a country could use to control rapid population growth.

1. _____

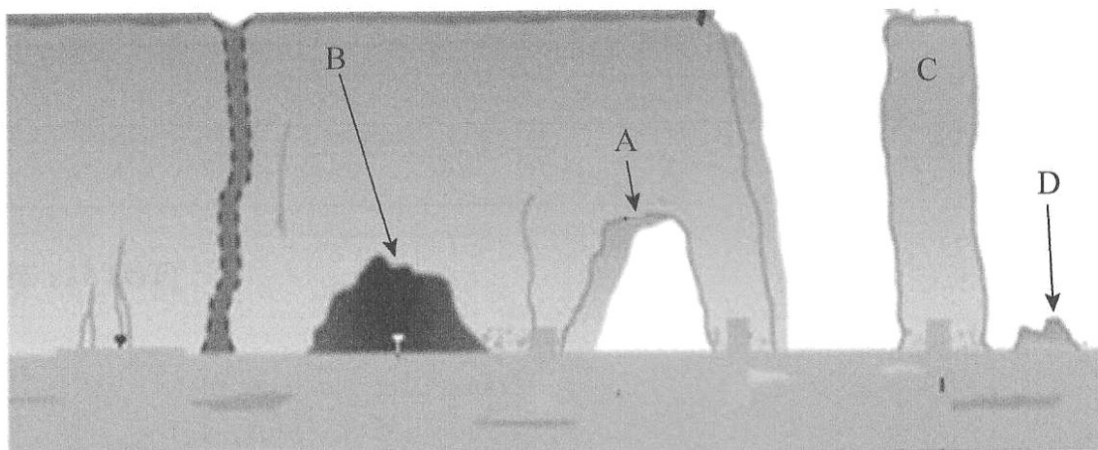
2. _____

_____ [4]

[TOTAL: 25 MARKS]

Question 5

The diagram below shows coastal landforms caused by wave erosion.



- (a) (i) Use the labels provided to identify each landform shown in the diagram above. [4]

Landform	
A	
B	
C	
D	

- (ii) Describe **FOUR** differences between constructive waves and destructive waves.

1. _____

2. _____

3. _____

4. _____

[4]



(iii) Name and explain **TWO** processes of wave erosion.

1. _____

 2. _____

- [4]

(b) The photo below shows a type of coastal defence used in The Bahamas.



(i) Name the coastal defence shown in the photo above.

_____ [1]

(ii) Describe **TWO** benefits and **ONE** disadvantage of using this type of coastal management strategy.

Benefits:

1. _____

 2. _____

- [2]

Disadvantage:

1. _____
_____ [1]

(iii) Explain **ONE** environmental impact caused by erosion of the coastline.

_____ [2]

(c) (i) Name **TWO** coastal landforms caused by wave deposition.

1. _____
2. _____ [2]

(ii) Describe how **ONE** of the landforms identified above is formed.

Name of chosen landform _____

Description

_____ [2]

(iii) Describe **THREE** economic advantages of beaches for The Bahamas.

1. _____

2. _____

3. _____
_____ [3]



[TOTAL: 25 MARKS]

Question 6

- (a) Define the term 'Commercial Farming.'

_____ [2]

- (b) State **TWO** physical factors and **TWO** human factors affecting agriculture in the Caribbean.

Physical Factors:

1. _____
2. _____

Human Factors:

1. _____
2. _____ [4]

- (c) The table below shows several Caribbean countries and the percentage of labour force in the three sectors of the economy (2018). Use the information in the table to help you answer questions (c) (i – iv).

Labour Force			
Country	Primary (%)	Secondary (%)	Tertiary (%)
The Bahamas	5	5	90
Cayman Islands	1	13	86
Haiti	66	9	25
Jamaica	19	17	64
Martinique	10	17	73
Trinidad & Tobago	10	13	77

- (i) Which sector of the economy employ the most Bahamians?
_____ [1]
- (ii) Which country has the largest percentage of its labour force in the primary sector?
_____ [1]
- (iii) What percentage of workers in the Cayman Islands and The Bahamas are involved in the primary industry?
_____ [1]
- (iv) Suggest **ONE** reason for the small percentage of workers involved in the primary sector in The Bahamas.

_____ [1]

- (d) (i) What is plantation agriculture?

_____ [2]



(ii) List **THREE** examples of crops grown in plantation agriculture.

1. _____
2. _____
3. _____ [3]

(iii) How does competition from the global market affect the prices Caribbean farmers can get for their produce?

- _____
- _____
- _____ [2]

(e) (i) Which ministry in The Bahamas is responsible for farming?

- _____ [1]

(ii) Name the tertiary level institute that offers education and training in agriculture in The Bahamas.

- _____ [1]

(iii) Discuss **THREE** incentives offered by the government to promote farming in The Bahamas.

1. _____
- _____
2. _____
- _____
3. _____
- _____ [6]

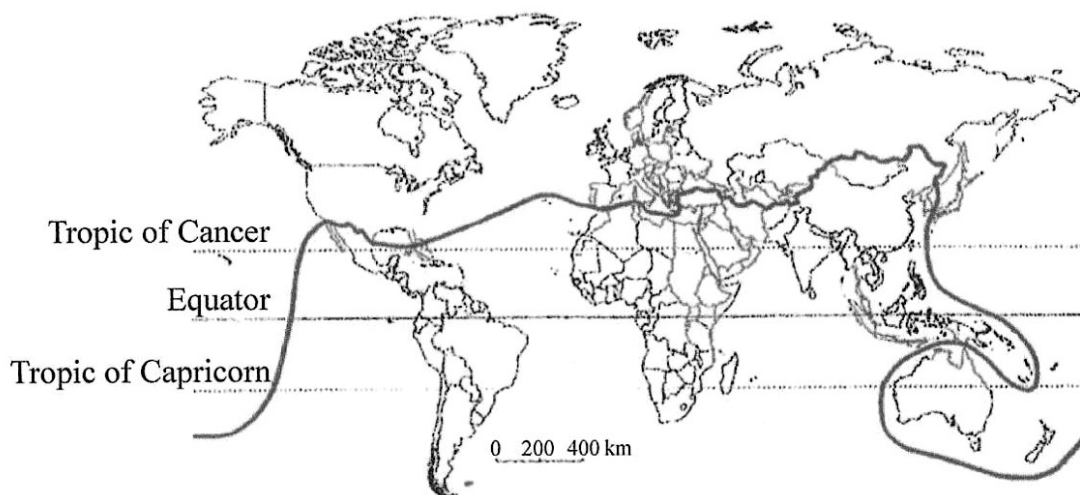
[TOTAL: 25 MARKS]



[Turn over

Question 7

- (a) (i) Study the map below and name **TWO** continents in the 'richer North', and **ONE** continent in the 'poorer south'.



Richer North: 1. _____ 2. _____

Poorer South: 1. _____ [3]

- (ii) Identify **THREE** measures of development.

(a) _____

(b) _____

(c) _____ [3]

- (iii) What is meant by quality of life?

_____ [2]

- (b) Explain **TWO** economic factors that negatively affect the development of a country.

1. _____

2. _____

_____ [4]



- (c) (i) What is bilateral aid?

[1]

- (ii) Explain **THREE** reasons why aid is needed by some countries?

1. _____

2. _____

3. _____

[6]

- (d) (i) List **THREE** examples of short-term aid.

1. _____

2. _____

3. _____

[3]

- (ii) Explain **ONE** advantage of short-term aid for a recipient country.

Advantage:

1. _____

[1]

- (iii) "Foreign aid does not always benefit poor countries." List **TWO** reasons why short-term aid is usually not effective:

1. _____

2. _____

[2]

[TOTAL: 25 MARKS]

[Turn over



Question 8

- (a) (i) Identify the **FOUR** different types of industries in the diagrams below using the terms on the left.

Types of Industries	Photos
A. Primary	 1. _____
B. Tertiary	 2. _____
C. Quaternary	 3. _____
D. Secondary	 4. _____



(ii) Explain how the factors below influence industrial location:

(a) Raw materials:

[2]

(b) Availability of markets:

[2]

(b) Suggest **THREE** reasons why some Caribbean countries are attempting to increase their number of industries.

1.

2.

3.

[3]



- (c) (i) Explain **TWO** negative environmental impacts of each of these primary industries.

Farming:

1. _____

2. _____
_____ [2]

Mining:

1. _____

2. _____
_____ [2]

- (ii) 'Economic development can be more sustainable if the industries that cause it reduce their environmental impacts.'

Define sustainability.

_____ [2]



(iii) Explain **FOUR** ways to make primary industries more sustainable.

1. _____

2. _____

3. _____

4. _____

_____ [8]

[TOTAL: 25 MARKS]



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School Number	Candidate Number
Surname and Initials	

FOR EXAMINER'S USE ONLY	
1	
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TOTAL	

