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# GEOGRAPHY

PAPER 1 5109/1

Wednesday **28 MAY 2025** 9:00 A.M.–10:00 A.M.

Additional materials:  
Ordnance Survey Map  
(Calculator, Protractor and a strip of paper may be used)

## 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 17 printed pages and 3 blank pages.



1. Which statement best defines evapotranspiration?
  - A. Loss of water from the atmosphere into other stores.
  - B. Movement of water downslope through the soil.
  - C. Loss of water from the ground, from water stores and plants.
  - D. Penetration of water into soil or rocks.
  
2. Identify the factor that causes the occurrence of earthquakes.
  - A. Changes in average temperature
  - B. Formation of a tsunami wave
  - C. Ocean surface movement
  - D. Tectonic plate movement
  
3. Which of the statements about tropical storms is true?
  - A. Tropical storms develop when wind strength exceed 74 mph.
  - B. Tropical storms occur in areas of high pressure.
  - C. Tropical storms gain energy as they reach land.
  - D. Tropical storms originate over cold ocean waters.
  
4. Which global ecosystem matches the following description?

***An area with trees which drop their leaves in winter***

  - A. Coniferous forest
  - B. Deciduous forest
  - C. Tropical grassland
  - D. Tropical rainforest





5. Which process of river transportation is shown at 'E' in Figure 1.1?

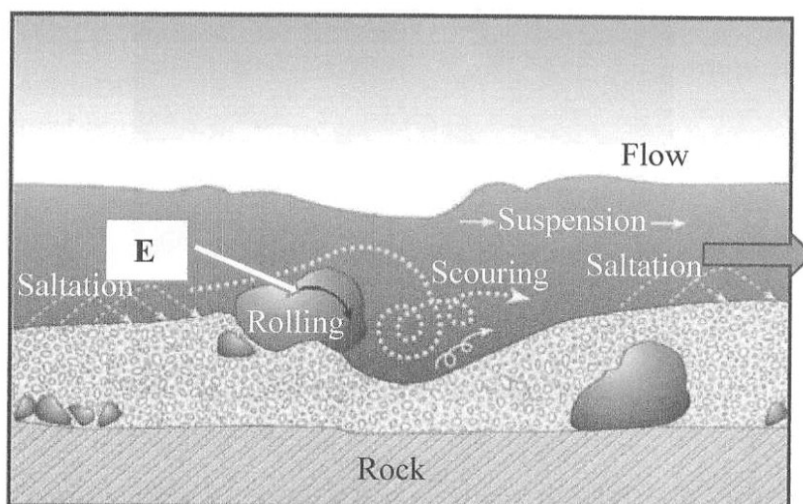


Figure 1.1

- A. Abrasion
- B. Attrition
- C. Deposition
- D. Traction

6. Study Figure 1.2, a photograph taken in the upper course of the river and its valley.



Figure 1.2

What is the name of the landform shown in Figure 1.2?

- A. Cavern
- B. Interlocking spurs
- C. Flood plain
- D. Levee

7. Which characteristic of tropical rainforests is shown in Figure 1.3 below?

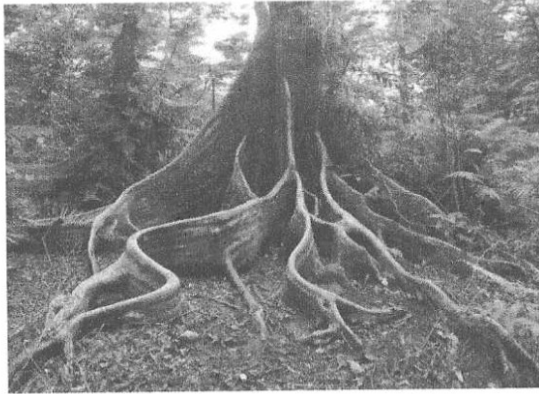


Figure 1.3

- A. The forest ecosystem is structured on one layer.
  - B. Buttress roots provide support for tall trees.
  - C. Low levels of biodiversity
  - D. Nutrient rich and fertile soils
8. Which of the following is a characteristic of a sedimentary rock?
- A. Formed by solidifying and cooling
  - B. Has crystal structure
  - C. Layered structure
  - D. Formed by heating





9. Study Table 1.1, information showing the climate of three areas, **A**, **B** and **C**.

| <b>Area</b> | <b>Mean (average)<br/>temperature in<br/>hottest month (°C)</b> | <b>Mean (average)<br/>Temperature in<br/>coldest month (°C)</b> | <b>Average annual<br/>rainfall (mm)</b> |
|-------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------|
| <b>A</b>    | 36                                                              | 16                                                              | 115                                     |
| <b>B</b>    | 26                                                              | 24                                                              | 2450                                    |
| <b>C</b>    | 28                                                              | 16                                                              | 660                                     |

Table 1.1

What is the annual range of temperature at area A?

- A. 15°C
- B. 20°C
- C. 26°C
- D. 52°C

10. Figure 1.4 shows information about the area near Haiti.

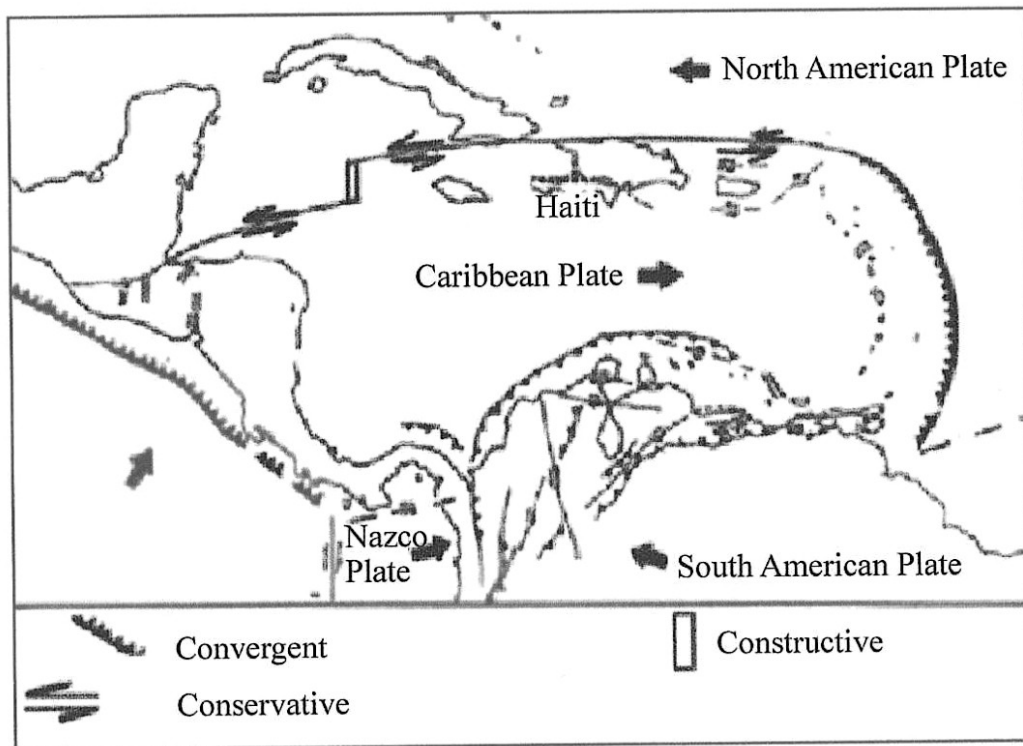


Figure 1.4

What type of plate boundary passes north of Haiti?

- A. Convergent
- B. Destructive
- C. Constructive
- D. Conservative





11. Which letter represents the focus in Figure 1.5?

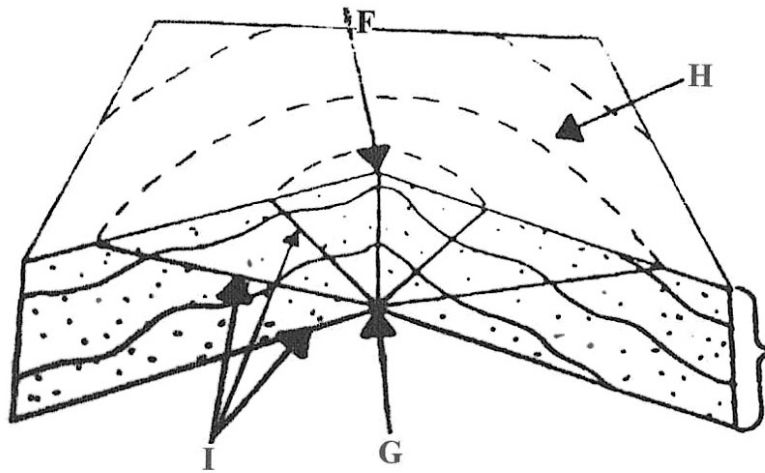


Figure 1.5

- A. F  
B. G  
C. H  
D. I
12. When is a hurricane warning issued?
- A. 24 hours or less of the storm reaching land  
B. 36 hours before the storm impacts an area  
C. 48 hours before the storm impact the area  
D. 60 hours before the storm impacts the area

13. Figure 1.6 shows an arch.

Which statement best explains the formation of this feature?

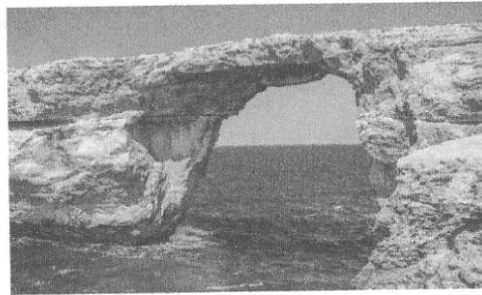


Figure 1.6

- A. The erosion of a cave cutting through a headland  
B. The collapse of the roof of a cave  
C. The wearing down of the top portion of the stack  
D. The fracturing of rocks caused by diverging plates
14. The diagram below shows the time zones around the world. If the time at 30° West longitude is 12:00 noon, what will the time be at 15° East?

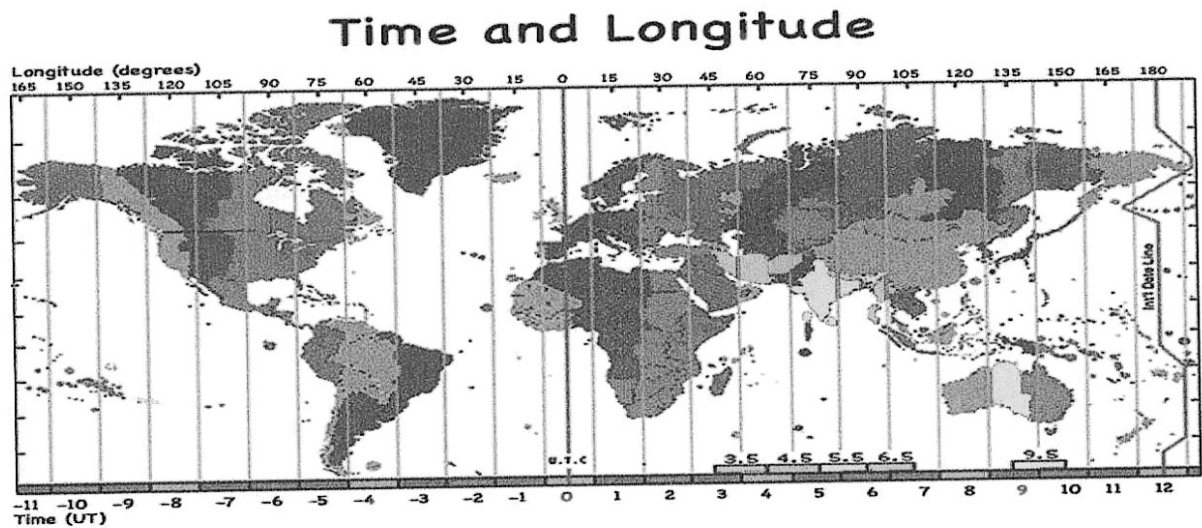


Figure 1.7

- A. 9:00 a.m.  
B. 1:00 p.m.  
C. 2:00 p.m.  
D. 3:00 p.m.



15. What is the name of layer “M” in the diagram?

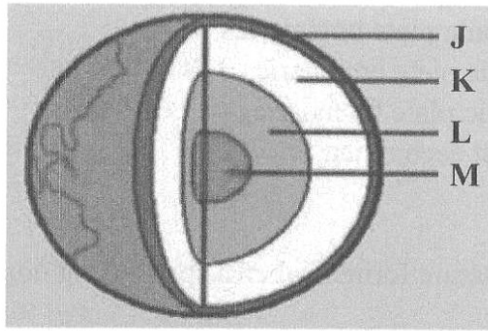


Figure 1.8

- A. Crust  
B. Mantle  
C. Outer core  
D. Inner core
16. Which of the following affects the chemical weathering of rocks and minerals the most?
- A. Angle of the slope  
B. Low temperatures and dry conditions  
C. High temperatures and moist conditions  
D. The presence of burrowing animals
17. An air mass from the Atlantic Ocean moving west into the Caribbean has a low pressure system. What effect would this have on the tourist industry?
- A. Reduction in outdoor activities booked  
B. High hotel occupancy  
C. Increased air arrivals  
D. Loss of foreign investment
18. Why do some igneous rocks have large crystal grains?
- A. They were formed near the surface.  
B. They were formed at fast rate of cooling  
C. They were formed from lava.  
D. They were formed at a slow rate of cooling



19. Where do mid ocean ridges normally form?
- A. Converging tectonic plate boundaries
  - B. Diverging tectonic plate boundaries
  - C. Stationary tectonic plate boundaries
  - D. Plates sliding past each other.
20. What is the name of the feature formed when a spit or a bar connects a small island to a mainland?
- A. Headland
  - B. Peninsula
  - C. Stack
  - D. Tombolo
21. Seismologists believe Earth's outer core is liquid because:
- A. It consists of iron and nickel
  - B. P-waves speed up as they enter it.
  - C. S-waves cannot travel through it.
  - D. Seismic waves bend when they enter it.
22. Study the map of Africa shown in Figure 1.9.

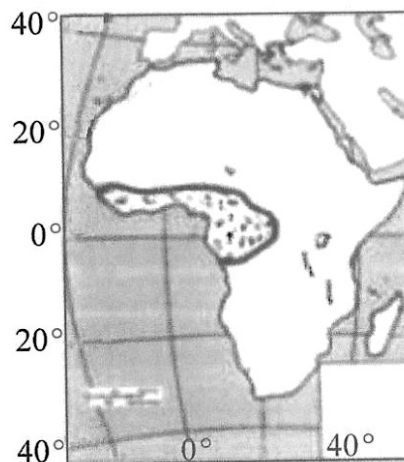


Figure 1.9

What is the location of the shaded area of the map?

- A. Between 10°N and 20°N
- B. Between 10°S and 20°S
- C. Between 10°W and 10°E
- D. Between 10°N and 10°S



23. Which of the following is a feature of a limestone area?
- A. Numerous rivers
  - B. Underground caves and caverns
  - C. Glaciers
  - D. Sand dunes
24. Which type of agriculture is characterised by the production of food mainly for local consumption by the farmers and their families?
- A. Subsistence
  - B. Plantation
  - C. Hydroponics
  - D. Commercial

Use the Ordnance Survey Map Extract (1:25,000) of Long Island, The Bahamas to answer questions 25 to 30.

25. What is the direction of the trigonometrical station at Marina (7204) **from** the Trigonometrical station in grid 7307?
- A. SE
  - B. SW
  - C. NE
  - D. NW
26. What is the length of Hog Cay from North to South in kilometres?
- A. 1.2 km
  - B. 1.8 km
  - C. 2.5 km
  - D. 3.8 km
27. Which physical feature is found in grid 6605?
- A. Hog Cay
  - B. Rocky Point
  - C. Dove Cay Island
  - D. Galliot Channel



28. What is the highest relief of the land north of northing 12?
- A. 70 ft.
  - B. 120 ft.
  - C. 134 ft.
  - D. 140.3 ft.
29. What is the six-figure grid reference of the trigonometrical station on Hog Cay in the northwest of the map?
- A. 649099
  - B. 651109
  - C. 099649
  - D. 101651
30. What is the dominant vegetation on the map extract?
- A. Low density scrub
  - B. Permanent Marsh
  - C. Casuarinas
  - D. Mixed Broadleaf Coppice





31. (a) Identify **ONE** service shown on the map for the inhabitants of Stella Maris.

\_\_\_\_\_ [1]

- (b) Suggest **TWO** factors that account for the location of a marina in grid 7204.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

- (c) Describe the eastern coastline on the map extract.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

- (d) Explain **TWO** possible reasons for the location of the airport at Stella Maris.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [4]



32. The photo below shows a challenge impacting coral reefs.

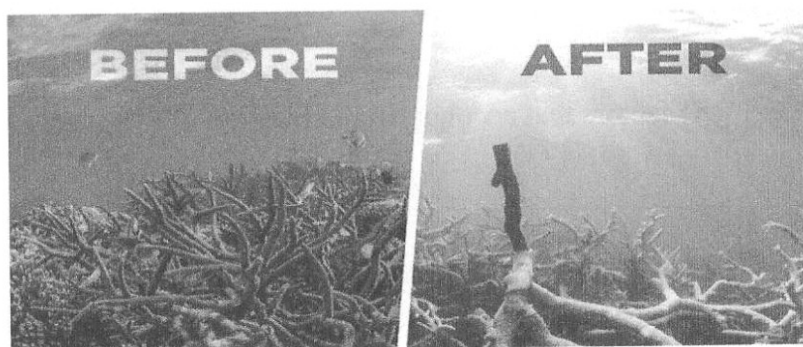


Figure 2.0

- (a) State **ONE** difference seen in the before and after photos in Figure 2.0.

\_\_\_\_\_ [1]

- (b) What is a coral reef?

\_\_\_\_\_  
\_\_\_\_\_ [1]

- (c) Describe **TWO** conditions needed for the survival of healthy coral reefs.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [4]



Study Figure 2.1 which shows coral reefs at risk.

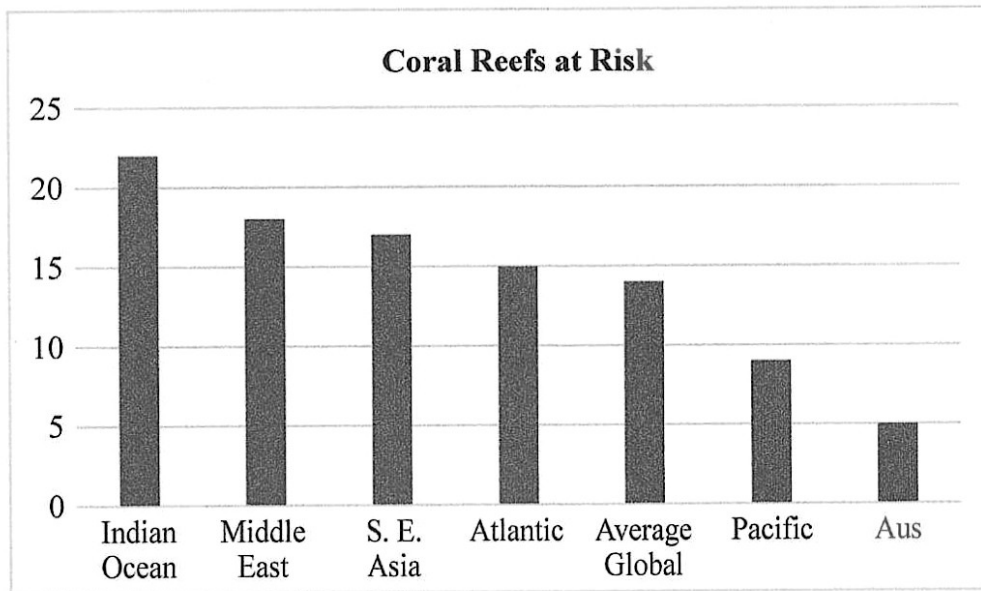


Figure 2.1

- (d) (i) What is the total percentage of coral reefs that are at risk in the Indian Ocean and SE Asia?

\_\_\_\_\_ [2]

- (ii) Which regions are below the Global average?

\_\_\_\_\_ [2]



33. The photo shows tourists engaged in activities in The Bahamas.

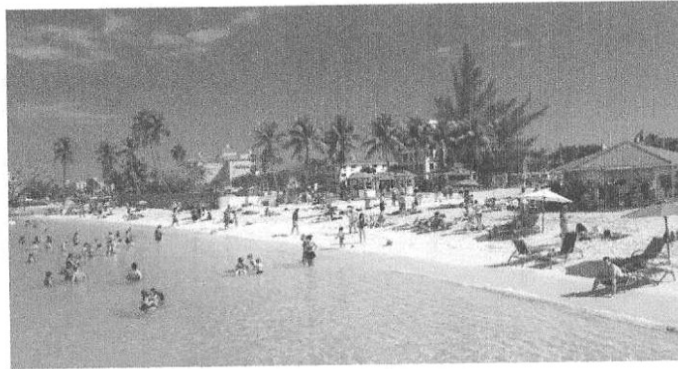


Figure 2.2

- (a) (i) Define the term tourist.

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[1]

Study **Table 2**, showing visitor arrivals to Blue Lagoon Island, a local tourist attraction.

| Types of visitors | 2015    | 2018    |
|-------------------|---------|---------|
| Stopover          | 90,000  | 135,000 |
| Cruise            | 150,000 | 210,000 |

**Table 2**

- (ii) How many more cruise ship passengers visited Blue Lagoon in 2018 compared to 2015?

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[1]

- (iii) What is the difference between a stopover visitor and a cruise ship visitor?

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[2]





- (b) Describe **THREE** economic benefits of the tourism industry in The Bahamas.

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[3]

- (c) Suggest **TWO** measures that can be implemented to enhance eco-tourism activities in The Bahamas.

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[4]

**TOTAL: 60 MARKS**



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|                             |                         |
|-----------------------------|-------------------------|
| <b>School Number</b>        | <b>Candidate Number</b> |
|                             |                         |
| <b>Surname and Initials</b> |                         |

| FOR EXAMINER'S USE ONLY |  |
|-------------------------|--|
| 1-30                    |  |
| 31(a)                   |  |
| 31(b)                   |  |
| 31(c)                   |  |
| 31(d)                   |  |
| 32(a)                   |  |
| 32(b)                   |  |
| 32(c)                   |  |
| 32(d)(i)                |  |
| 32(d)(ii)               |  |
| 33(a)(i)                |  |
| 33(a)(ii)               |  |
| 33(a)(iii)              |  |
| 33(b)                   |  |
| 33(c)                   |  |
| TOTAL                   |  |



5109/2

BGCSE

| School Number        | Candidate Number |
|----------------------|------------------|
|                      |                  |
| Surname and Initials |                  |

# GEOGRAPHY

PAPER 2 5109/2

Tuesday **3 JUNE 2025** 9:00 A.M.–11:30 A.M.

Additional materials:

Calculator

## 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 40% 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 [ ].

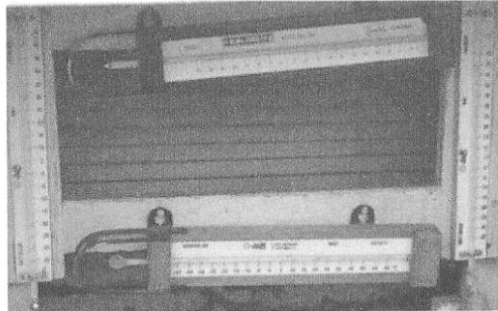
**ALL** candidates are required to write their answers in the spaces provided for each question.



This question paper consists of 33 printed pages and 3 blank pages.

### Question 1

- (a) Study **Figure 1.1**, which is a photograph showing weather instruments inside a Stevenson screen.



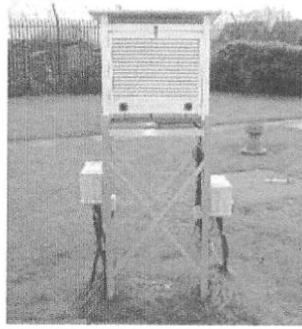
**Figure 1.1**

- (i) What type of weather instruments are shown in the Stevenson screen in **Figure 1.1**?  
\_\_\_\_\_ [1]
- (ii) State the **TWO** types of weather data which are measured by the instruments shown in **Figure 1.1**.  
1. \_\_\_\_\_  
2. \_\_\_\_\_ [2]





- (iii) Study **Figure 1.2** which shows a Stevenson screen.



**Figure 1.2**

Describe **THREE** characteristics of the Stevenson screen shown in **Figure 1.2**.

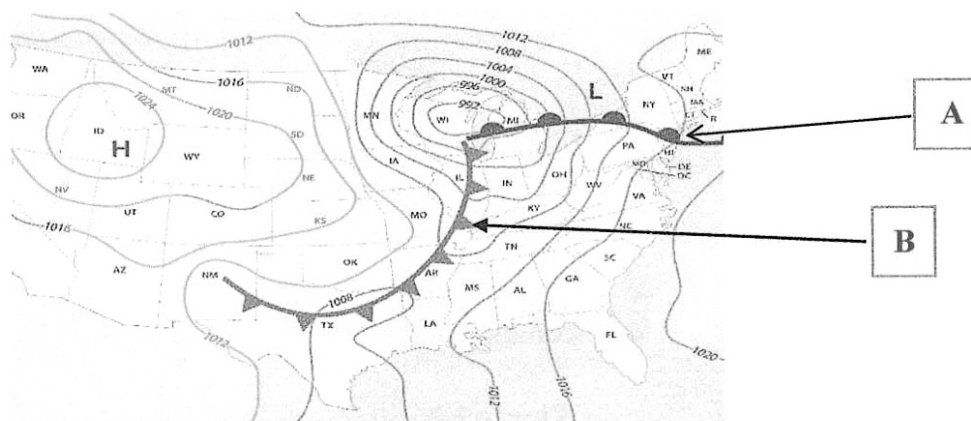
1. \_\_\_\_\_  
\_\_\_\_\_
  2. \_\_\_\_\_  
\_\_\_\_\_
  3. \_\_\_\_\_  
\_\_\_\_\_
- [3]

- (iv) Explain **TWO** factors that must be considered when finding a suitable location for the Stevenson screen.

- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- [4]



- (b) Study **Figure 1.3** which shows a weather map for a particular area.



**Figure 1.3**

- (i) Describe **THREE** differences between the weather systems labelled **A** and **B** on **Figure 1.3**.

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[3]

- (ii) Select a word from the word bank to identify the weather symbols shown below.

**Word bank**

**Drizzle**

**Fog**

**Snow**

**Thunderstorm**

| Weather Symbols                                                                     |       |
|-------------------------------------------------------------------------------------|-------|
|  | _____ |
| _____                                                                               | _____ |
| _____                                                                               | _____ |
| _____                                                                               | _____ |
|  | _____ |
|  | _____ |

[4]

- (c) (i) Identify **TWO** weather conditions that are obtained from satellite images.

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[2]

- (ii) Describe the weather conditions of a category 4 hurricane.

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[2]

- (iii) Describe the impact of a category 4 hurricane on residents of The Bahamas.

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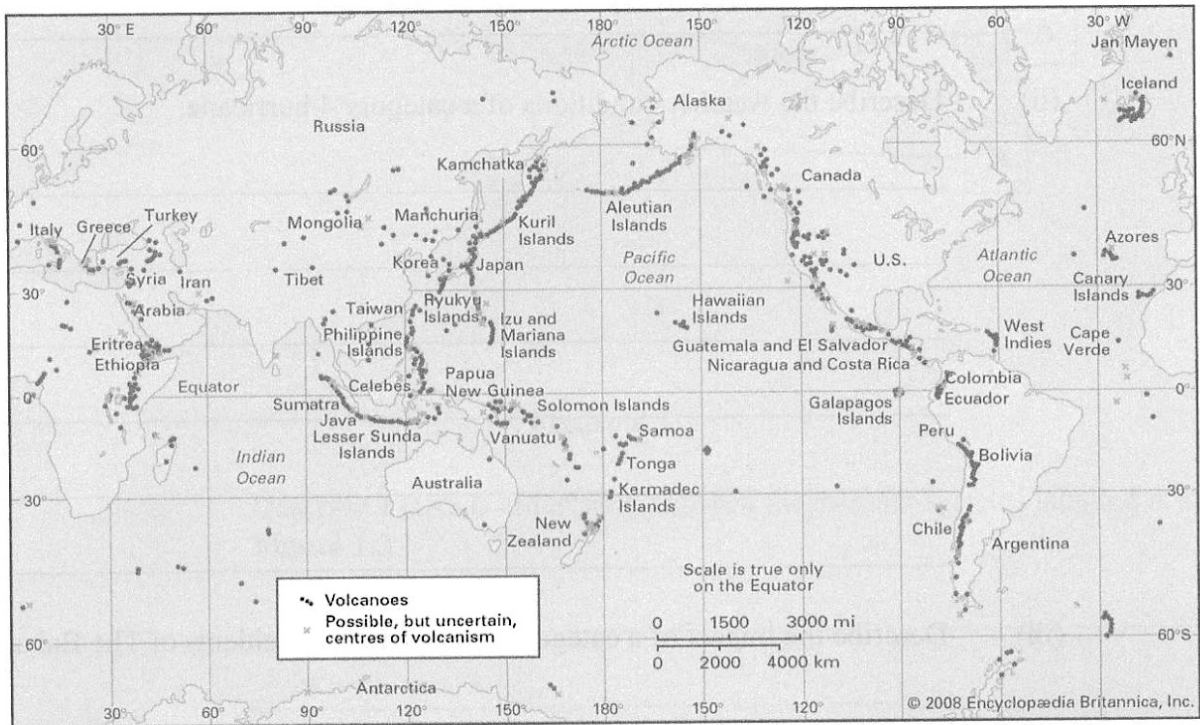
[4]

**[TOTAL: 25 MARKS]**



## Question 2

Study **Figure 2.1** below which shows volcanoes and other related features.



**Figure 2.1**

- (a) (i) Name a profession that studies volcanoes.

\_\_\_\_\_ [1]

- (ii) Describe the distribution of volcanoes shown in **Figure 2.1**.

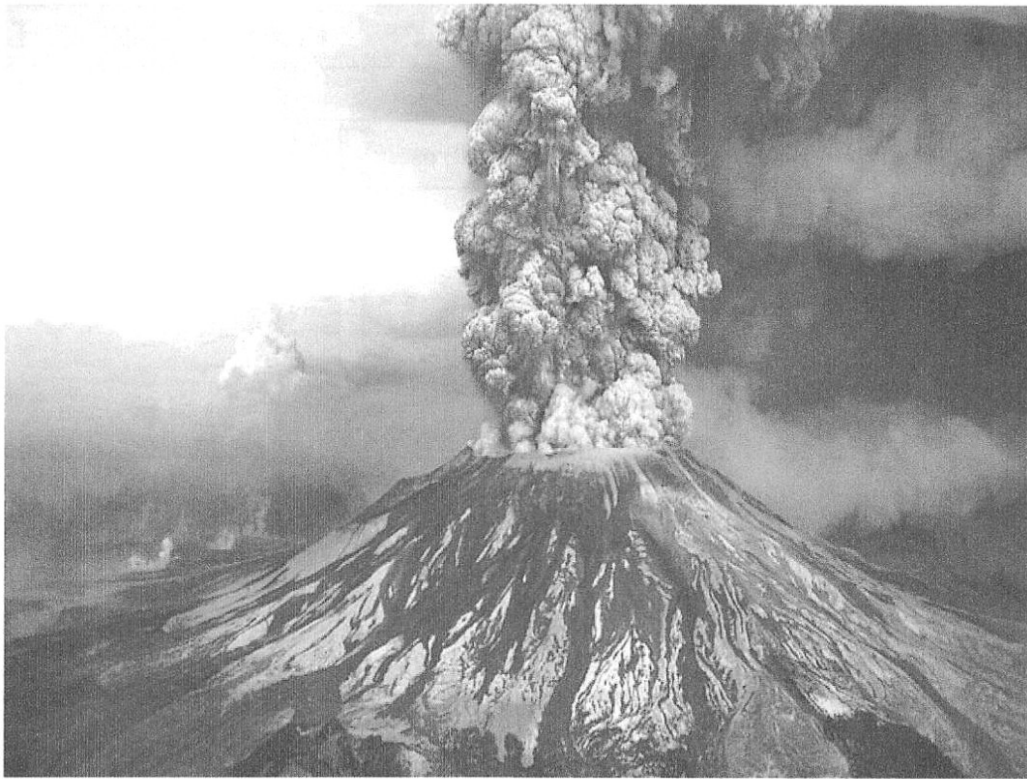
\_\_\_\_\_  
 \_\_\_\_\_ [2]

- (iii) Identify **THREE** countries in South America where active volcanoes are found as shown in **Figure 2.1**.

1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ [3]



The photograph below shows an erupting volcano.



**Figure 2.2**

- (b) (i) Study the photo in **Figure 2.2** and describe the sides of the volcano shown.

\_\_\_\_\_  
\_\_\_\_\_ [1]

- (ii) Explain **TWO** conditions needed for the formation of a caldera.

1. \_\_\_\_\_  
2. \_\_\_\_\_ [2]

- (iii) Describe **THREE** characteristics of a shield volcano.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [3]



- (c) (i) Use the words below to place them into the section they are best situated. [5]

|               |            |        |      |              |
|---------------|------------|--------|------|--------------|
| Volcanic cone | Laccoliths | Crater | Sill | Lava plateau |
|---------------|------------|--------|------|--------------|

| Extrusive Igneous Features               | Intrusive Igneous Features               |
|------------------------------------------|------------------------------------------|
| <br><br><br><br><br><br><br><br><br><br> | <br><br><br><br><br><br><br><br><br><br> |

- (d) (i) Explain **TWO** benefits that people enjoy as a result of volcanic eruptions.

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[4]

- (ii) Explain **TWO** ways in which volcanic eruptions negatively impact people and the environment.

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[4]

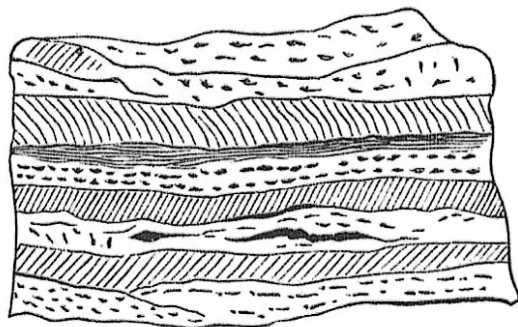
[TOTAL: 25 MARKS]



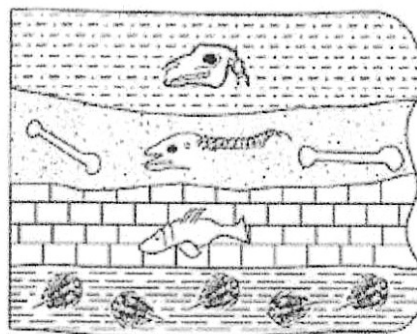


### Question 3

Study the diagrams in **Figure 3.1** and **Figure 3.2** showing a type of rock that is found in many countries throughout the Caribbean.



**Figure 3.1**



**Figure 3.2**

Early horses

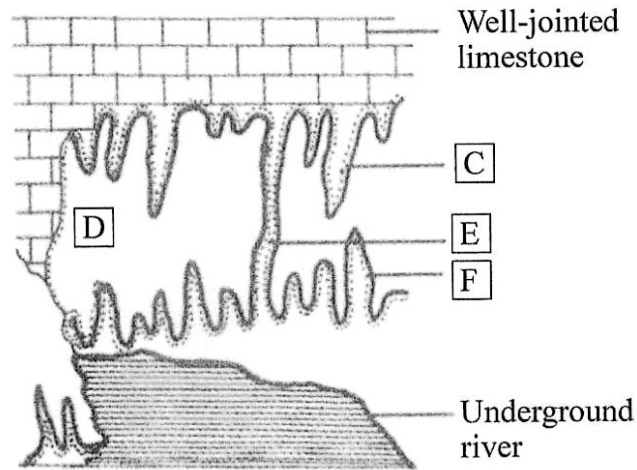
Dinosaurs

Armoured fish

Trilobites

- (a) (i) What type of rock is shown in **Figure 3.1** and **Figure 3.2**?  
\_\_\_\_\_ [1]
- (ii) Using evidence from **Figure 3.1** and **Figure 3.2** only, describe **TWO** characteristics of the rock shown.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]
- (iii) Name **TWO** examples of the rock shown in **Figure 3.1** and **Figure 3.2**.  
\_\_\_\_\_ [2]

**Figure 3.3** shows features found in a typical limestone area. Use the diagram to answer questions 3(b) (i) – 3(b) (iii).



**Figure 3.3**

- (b) (i) Identify the features labelled C–F shown on the diagram in **Figure 3.3**.

C: \_\_\_\_\_

D: \_\_\_\_\_

E: \_\_\_\_\_

F: \_\_\_\_\_ [4]

- (ii) Explain how the feature labelled 'E' was formed.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

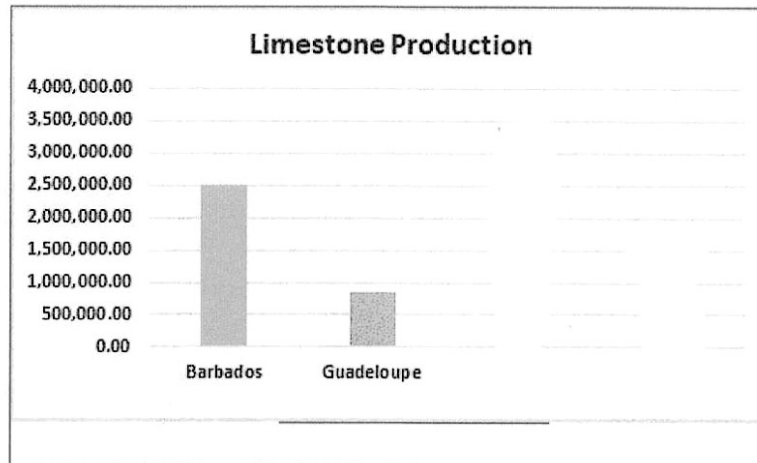
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ [4]



- (iii) Complete the bar graph below using the information from Table 1.



[2]

Limestone production in the Caribbean 2017

| Country             | Limestone (tonnes) |
|---------------------|--------------------|
| Barbados            | 2,500,000          |
| Guadeloupe          | 850,000            |
| Jamaica             | 3,400,000          |
| Trinidad and Tobago | 1,500,000          |

Table 1

- (c) Explain **TWO** limitations of landscapes formed by Carboniferous limestone for farming.

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[4]

[Turn over



- (d) Explain **THREE** economic benefits of limestone.

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[6]

**[TOTAL: 25 MARKS]**



#### Question 4

Study **Figure 4.1** which shows a photograph of the main power station in The Bahamas.



**Figure 4.1**

- (a) (i) Describe the location of the power station in **Figure 4.1**.

\_\_\_\_\_ [1]

- (ii) Describe **TWO** features of the power station shown in **Figure 4.1**.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

- (b) Discuss **TWO** advantages and **TWO** disadvantages of using fossil fuels.

**Advantages:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Disadvantages:** \_\_\_\_\_

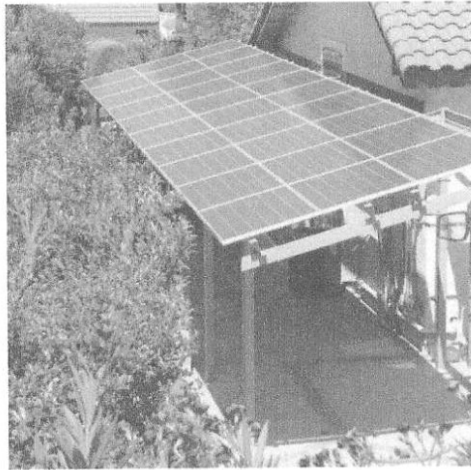
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\_\_\_\_\_  
\_\_\_\_\_

[4]

[Turn over



- (c) Study **Figure 4.2** which shows a renewable energy source that is becoming popular in The Bahamas.



**Figure 4.2**

- (i) Describe the solar panels shown in **Figure 4.2**.

\_\_\_\_\_ [1]

- (ii) Suggest **TWO** possible reasons for the location of the device shown in **Figure 4.2**.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

- (iii) Give **THREE** reasons why solar energy is important in a country like The Bahamas?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [3]





- (d) (i) Explain the difference between **renewable** and **non-renewable** energy resources.

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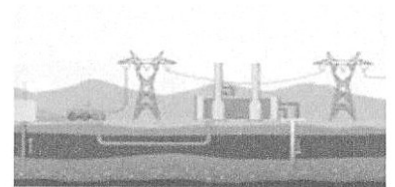
[2]

- (ii) Study the photos and categorise the energy resources as either **renewable** or **non-renewable**.



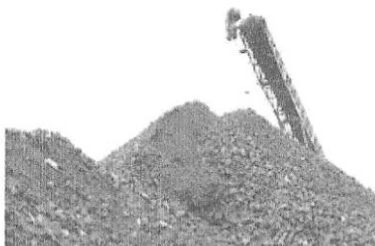
(a)

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(b)

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(c)

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(d)

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[4]



- (iii) Explain **THREE** environmental concerns that may arise from oil drilling in The Bahamas.

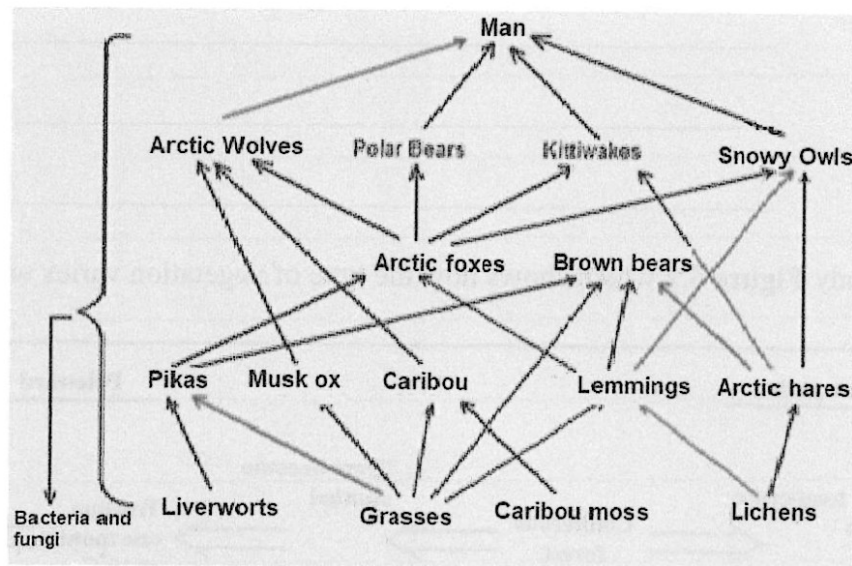
[illegible]

**[TOTAL: 25 MARKS]**



### Question 5

- (a) Study **Figure 5.1** which is a diagram showing a tundra ecosystem.



**Figure 5.1**

- (i) Define the term ecosystem.

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[1]

- (ii) Use **Figure 5.1** to complete the table below to identify the species.

| Parts of the Ecosystem | Species |
|------------------------|---------|
| Primary producer       |         |
| Herbivore              |         |
| Carnivore              |         |

[3]

- (b) (i) State **TWO** countries in the Caribbean with tropical rainforests.

1. \_\_\_\_\_

2. \_\_\_\_\_

[2]

- (ii) Describe the floor of the tropical rainforest.

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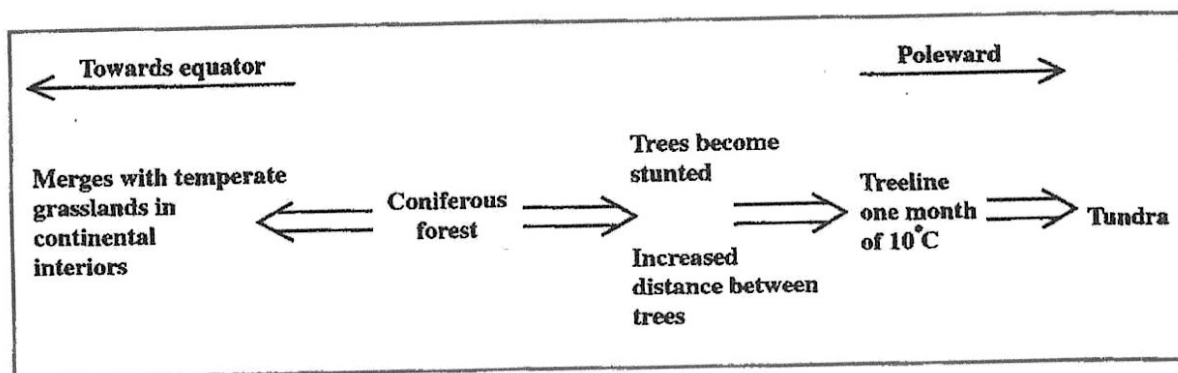
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[2]

- (c) Study **Figure 5.2** which shows how the type of vegetation varies with latitude.



**Figure 5.2**

- (i) Using **Figure 5.2**, state **TWO** changes which occur in coniferous forest as one moves poleward.

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[2]

- (ii) Using **Figure 5.2**, state the change in vegetation type as the coniferous forest merge with the continental interior.

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[1]



- (iii) Explain how **TWO** characteristics of coniferous trees help them to adapt to their environment.

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[4]

- (d) (i) Name **TWO** types of trees found in Bahamian Mixed Tropical Broadleaf Coppice.

(a) \_\_\_\_\_

(b) \_\_\_\_\_ [2]

- (ii) Describe **TWO** ways in which Mixed Tropical Broadleaf Coppice Forests are used sustainably in The Bahamas.

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[4]



- (e) “Despite the overwhelming value mangroves provide, they are being exploited and destroyed around the world.”

Explain **TWO** ways in which the areas of mangroves in The Bahamas have been destroyed.

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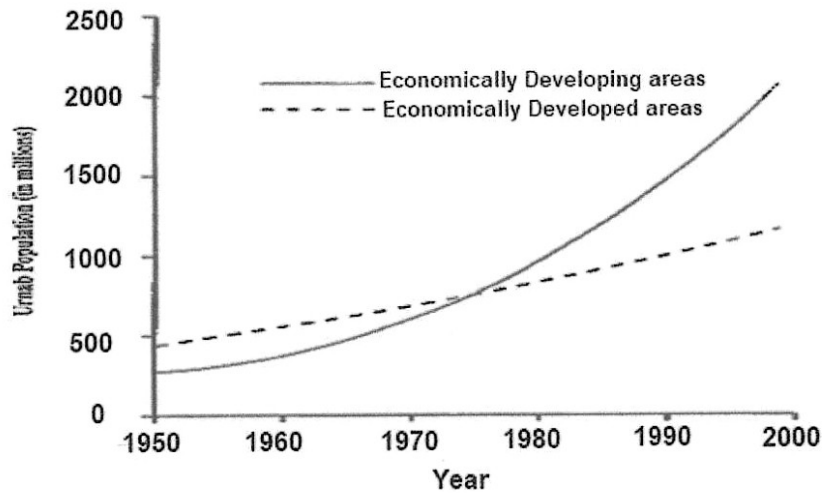
[4]

**[TOTAL: 25 MARKS]**



### Question 6

- (a) Study **Figure 6.1** which is a graph showing the urban population in economically developed and economically developing areas around the world.



**Figure 6.1**

- (i) What was the urban population in economically developed areas in 1960?  
\_\_\_\_\_ [1]
- (ii) Calculate the difference between the urban population in economically developed and economically developing areas in the year 1990. You should show your calculations

Answer: \_\_\_\_\_

[2]





- (iii) Compare the urban population in economically developed and economically developing areas. You should use statistics in your answer.

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[3]

- (b) Explain the differences between the following terms:

- (i) rural and urban settlements

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[2]

- (ii) site and situation of settlements

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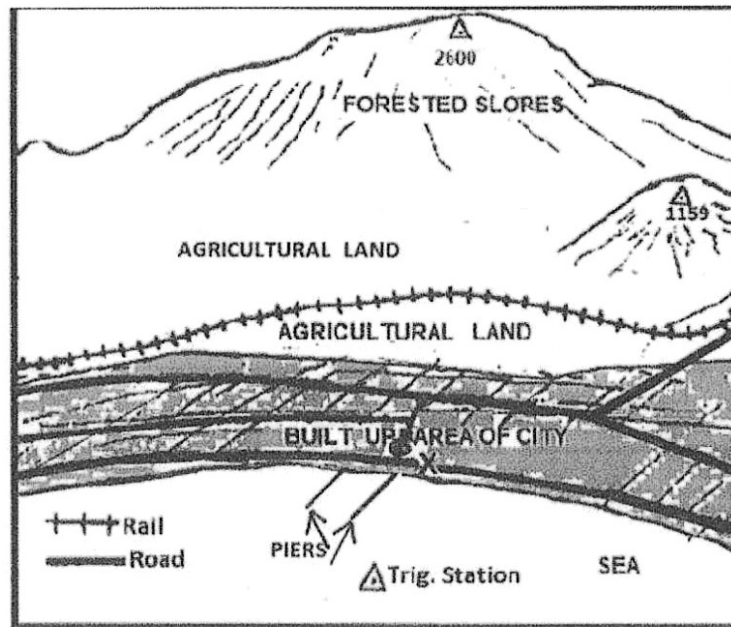
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[2]



- (c) Study **Figure 6.2** which is a sketch map of a city in the Caribbean.



**Figure 6.2**

- (i) Identify **TWO** modes of transportation from **Figure 6.2**.

\_\_\_\_\_  
\_\_\_\_\_  
[2]

- (ii) State **ONE** reason why there been a decrease in the use of railway lines in Caribbean cities.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
[1]



- (iii) Suggest **TWO** reasons for the location of the city shown as X in **Figure 6.2**. You should develop your ideas.

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[4]

- (d) (i) State **TWO** factors that lead to the development of shanty towns.

1. \_\_\_\_\_

2. \_\_\_\_\_

[2]

- (ii) Explain the problems people living in shanty towns may experience.

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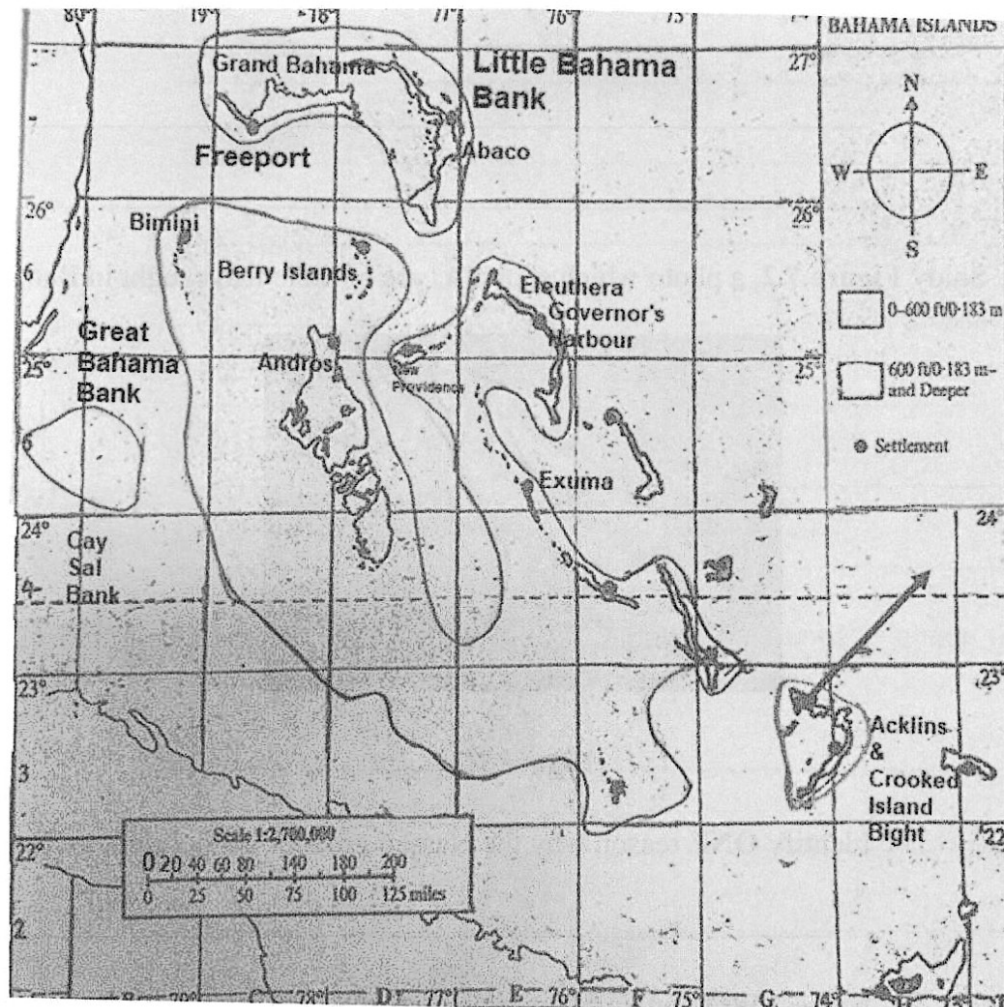
[6]



[TOTAL: 25 MARKS]

**Question 7**

Study **Figure 7.1** which is a map of The Bahamas.



**Figure 7.1**

- (a) (i) Use **Figure 7.1** to calculate the distance from Governor's Harbour, Eleuthera to Freeport, Grand Bahama in miles.
- \_\_\_\_\_ [1]
- (ii) Name **TWO** islands located on the largest fishing bank.
1. \_\_\_\_\_
2. \_\_\_\_\_ [2]

- (iii) Compare the Little Bahama Bank to the Great Bahama Bank.

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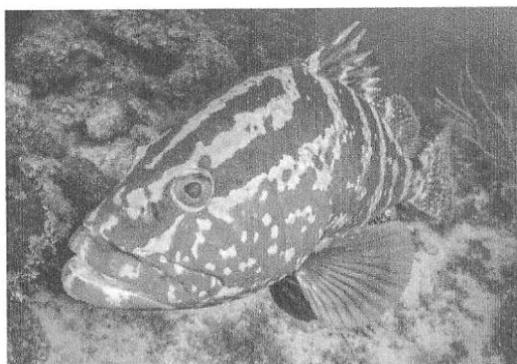
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[3]

- (b) Study **Figure 7.2**, a photo which shows a type of scale fish caught in Bahamian waters.



**Figure 7.2**

- (i) Identify **ONE** reason why the Nassau grouper is important to The Bahamas.

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[1]

- (ii) Name **TWO** non-edible marine resources extracted from Bahamian waters.

1. 

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2. 

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[2]

- (iii) State **TWO** threats that are experienced in The Bahamian fishing industry.

1. 

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2. 

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[2]



- (c) (i) Suggest **FOUR** ways in which The Bahamian fishing industry can overcome some of the challenges it faces.

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[4]

- (ii) Describe **TWO** commercial fishing methods used to obtain fish in Bahamian waters.

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[4]



- (d) Explain the economic benefits of the fishing industry to The Bahamas. You should develop your ideas.

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[6]

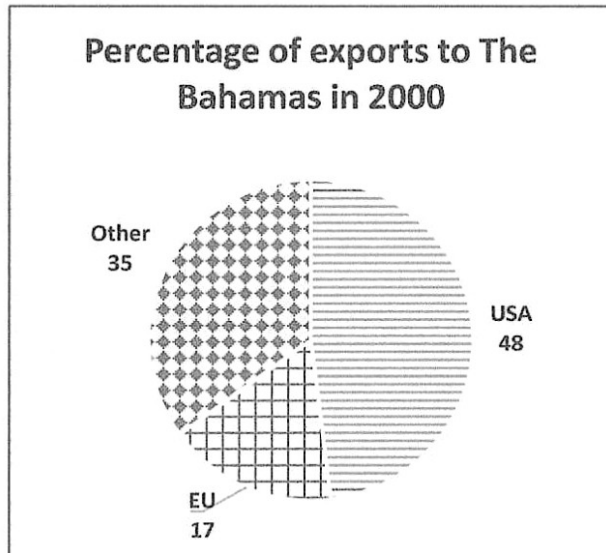
**[TOTAL: 25 MARKS]**



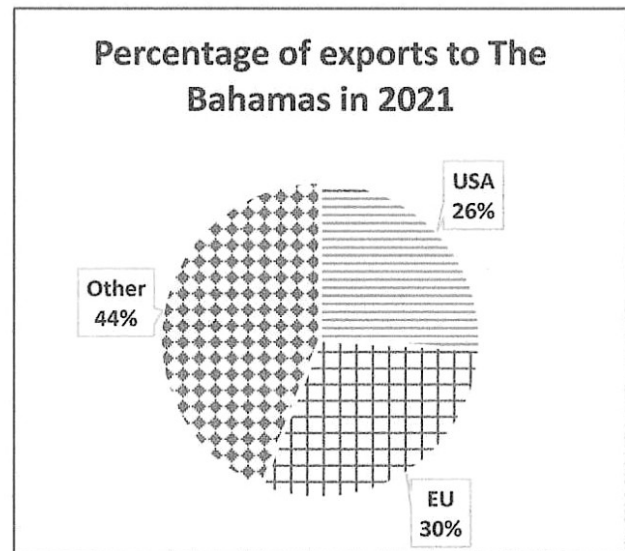


**Question 8**

- (a) Study **Figure 8.1** and **Figure 8.2** which are showing exports to The Bahamas from the USA and the European Union.



**Figure 8.1**



**Figure 8.2**

- (i) Which trading partner exported more products to The Bahamas in 2000?
- \_\_\_\_\_ [1]
- (ii) In which year did exports from the EU to The Bahamas exceed exports from the USA?
- \_\_\_\_\_ [1]
- (iii) Which trading partner had a decline in exports to The Bahamas between 2000 and 2021?
- \_\_\_\_\_ [1]
- (b) (i) What does the acronym **OPEC** stand for?
- \_\_\_\_\_ [1]

- (ii) State **TWO** differences between domestic and international trade.

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[2]

- (c) Table 1 shows the structure of selected CARICOM economies (2010).

| Countries           | Agriculture<br>(% of GDP) | Manufacturing<br>(% of GDP) | Services<br>(% of GDP) | Exports<br>(% of GDP) | Imports<br>(% of GDP) |
|---------------------|---------------------------|-----------------------------|------------------------|-----------------------|-----------------------|
| Antigua and Barbuda | 2.0                       | 19.9                        | 78.1                   | 46.3                  | 56.5                  |
| The Bahamas         | 2.2                       | 15.2                        | 82.6                   | 41.5                  | 50.1                  |
| Dominica            | 13.2                      | 14.9                        | 71.9                   | 31.7                  | 54.4                  |
| St. Lucia           | 32.2                      | 16.6                        | 80.2                   | 47.2                  | 60.3                  |
| Trinidad and Tobago | 0.6                       | 5.3                         | 47.0                   | 63.7                  | 36.7                  |

Source: World Data Bank

**Table 1**

- (i) Which country has the highest contribution of agriculture to the GDP?

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[1]

- (ii) Which country experienced the largest trade deficit in 2010?

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[1]

- (iii) Compare the economic structure of The Bahamas with Trinidad and Tobago. You should use statistics in your answer.

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[4]



- (d) (i) State **THREE** measures Caribbean countries take to protect the domestic producers.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_ [3]

- (ii) Describe **TWO** benefits and **TWO** problems that countries have from membership in trading blocs such as CARICOM.

**Benefits**

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**Problems**

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[4]



- (e) Suggest how a country with a trade deficit can improve its balance of payments. You should develop your ideas.

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[6]

**[TOTAL: 25 MARKS]**



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| Surname                                                      | Initials                                                     |
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| FOR EXAMINER'S USE ONLY |  |
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| School Number        | Candidate Number |
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# GEOGRAPHY

PAPER 5 5109/5

Wednesday **28 MAY 2025** 10:15 A.M.–11:45 NOON

**Additional materials:**  
**Calculator, Protractor**

## 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 on this booklet.

Answer **ALL** questions. This paper accounts for 20% of the total marks. There are 3 questions in this booklet. The mark for each question is given in brackets [ ]. All questions carry twenty-five marks.

**ALL** answers should be written in the spaces provided for each question unless otherwise indicated. Sketch-maps and diagrams may be drawn whenever they serve to illustrate an answer.

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This question paper consists of 17 printed pages and 3 blank pages.

### Question 1

A group of students carried out a field study to investigate the extent of fishing in a community in terms of age, the average catch per trip and the main fishing methods. They came up with the following hypotheses for their study:

**Hypothesis 1:** Most of the fishermen use spearing as the main method of fishing.

**Hypothesis 2:** Most of the fishermen are over 39 years old.

The tables below show a tally of the information collected.

**Table 1**

Average Age of Fishermen

| Age Group | Number/Tally |
|-----------|--------------|
| Under 20  | I            |
| 20-29     | III          |
| 30-39     | IIII         |
| 40-49     | IIII I       |
| 50-59     | IIII         |
| Over 60   | I            |

**Table 2**

Methods of Fishing Used

| Methods of Fishing | Tally     |
|--------------------|-----------|
| Line Fishing       | II        |
| Trapping           | IIII IIII |
| Spearing           | IIII III  |
| Other              | I         |

**Table 3**

Frequency of Fishing Trips

| Number of days per week | Tally   |
|-------------------------|---------|
| 1                       | IIII    |
| 2                       | IIII II |
| 3                       | IIII    |
| 4                       | II      |
| 5                       | I       |

**Table 4**

Average catch per trip

| Weight in pounds | Tally     |
|------------------|-----------|
| Under 100        | III       |
| 100 – 199        | IIII IIII |
| 200 – 299        | IIII      |
| 300 and over     | III       |



- (a) Suggest **ONE** fieldwork method used to collect the information and give the reason for your choice.

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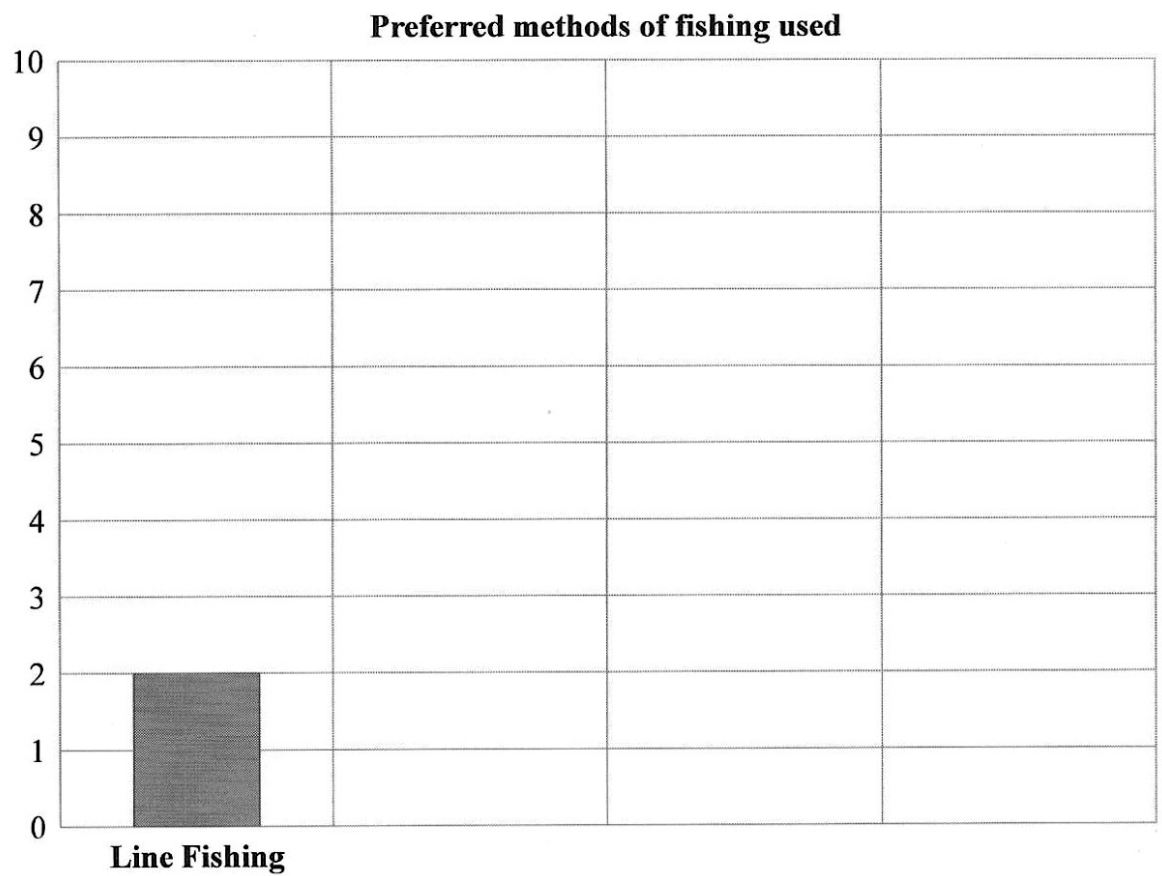
[2]

- (b) How many fishermen were included in this survey?

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[1]

- (c) Using Table 2, complete the bar graph to show the preferred methods of fishing used.



[6]

- (d) What conclusion can you draw about hypothesis 1 and 2? Support your answer with evidence from the data collected.

- (i) ***Hypothesis 1: Most of the fishermen use spearing as the main method.***

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[3]

- (ii) ***Hypothesis 2: Most of the fishermen are over 39 years old.***

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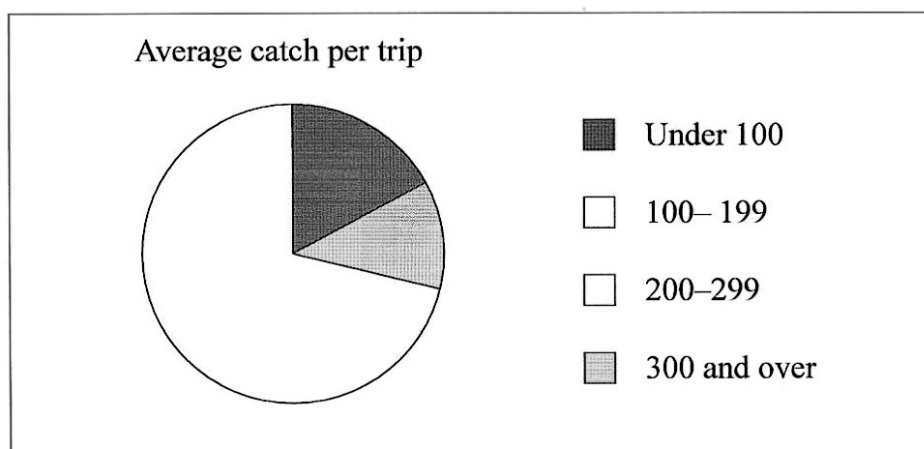
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[3]

- (e) Complete the pie chart to show the average catch per trip. [4]



- (f) Calculate the percentage of the fishermen who go fishing more than twice per week.

(Show your calculations)

|        |
|--------|
| Answer |
|--------|

[2]

- (g) Suggest **TWO** possible challenges that the fishing community may face in the future.

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|--|
|  |
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[4]

**[TOTAL: 25 MARKS]**

## Question 2

Students in a 12th grade class were studying the sphere of influence of settlements and services. The sphere of influence is the area served by a settlement or service. They decided to investigate the sphere of influence of their school. They devised two hypotheses for the study.

**Hypothesis 1:** Most of the students coming to our school live in the Sea Breeze constituency.

**Hypothesis 2:** The majority of students travel to school by private vehicle.

Students completed a walkabout of their school community to identify the types of services offered.

- (a) List **TWO** fieldwork materials needed to carry out this study.

1. \_\_\_\_\_

2. \_\_\_\_\_ [2]

- (b) Explain why the sphere of influence changes between different sized settlements.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ [2]

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- (c) To collect data to test their hypotheses the students created a questionnaire which is shown in Figure 2A below.

### Sphere of Influence Questionnaire

As part of my geography coursework, I am completing an investigation into the sphere of influence of the school. Please assist me by answering the following questions.

1. *In which constituency of New Providence Island do you live?*  
Please tick below.

| <b>Constituency</b> | <b>Tick (✓)</b> |
|---------------------|-----------------|
| South Beach         |                 |
| Pinewood            |                 |
| Bamboo Town         |                 |
| Baillou Hills       |                 |
| Golden Gates        |                 |
| Garden Hills        |                 |
| Carmichael          |                 |
| SeaBreeze           |                 |
| Nassau Village      |                 |
| Other               |                 |

2. *Why did you choose to attend this school?*

| <b>Reason</b>           | <b>Tick (✓)</b> |
|-------------------------|-----------------|
| Academic/magnet program |                 |
| Near to home            |                 |
| Came from feeder school |                 |
| Athletic program        |                 |
| Near to bus route       |                 |
| Other                   |                 |

3. *How do you usually travel to school?*

| <b>Mode of transport</b> | <b>Tick (✓)</b> |
|--------------------------|-----------------|
| Private vehicle          |                 |
| Public bus/jitney        |                 |
| Government school bus    |                 |
| Walk                     |                 |

*Thank you for your time.*

**Figure 2A**

- (i) State **ONE** additional question the students could have included on the questionnaire to investigate the sphere of influence.

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[1]

- (ii) The students decided to ask 20% of the student population to complete their questionnaire. This would result in 200 questionnaires being completed.

Do you think that this is an appropriate sample size? Explain your answer.

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[3]

- (iii) Describe a suitable sampling method for selecting the students to complete the questionnaire in order to get a fair, representative sample.

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[2]

- (d) After completing their survey the students tabulated the results of the questionnaire. The results for Question 1 (In which constituency of New Providence Island do you live?) are shown in Table 5 below.

**Table 5**

**Answers to Question 1: In which constituency of New Providence Island do you live?**

|    | Constituency   | Tally                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Number     |
|----|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1  | South Beach    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 24         |
| 2  | Pinewood       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10         |
| 3  | Bamboo Town    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 25         |
| 4  | Baillou Hills  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2          |
| 5  | Golden Gates   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |
| 6  | Garden Hills   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 20         |
| 7  | Carmichael     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 40         |
| 8  | Sea Breeze     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5          |
| 9  | Nassau Village |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5          |
| 10 | Other          |      <br>      | 60         |
|    | <b>Total</b>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>200</b> |

- (i) Nine students live in the Golden Gates constituency. Use this information to complete Table 5. [1]

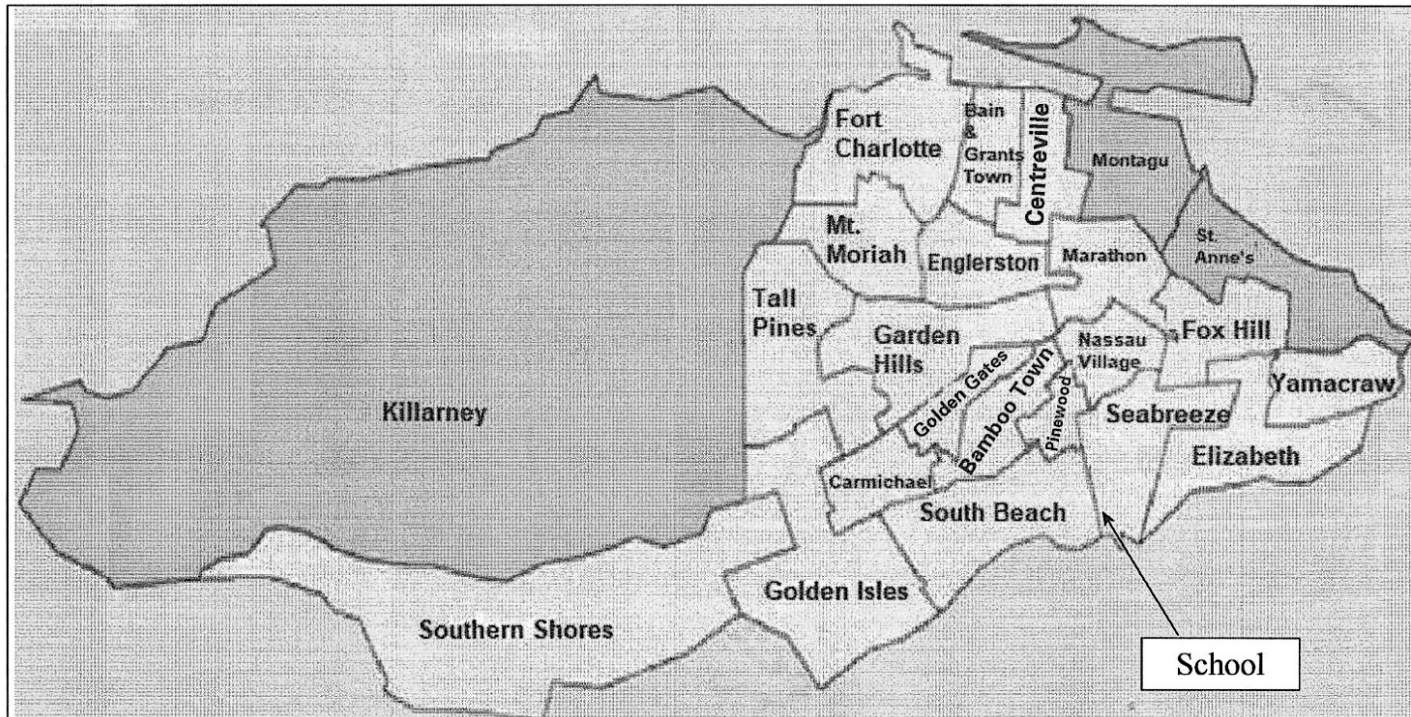


- (ii) Calculate the percentage of students who live in the Carmichael constituency.  
(You should show your calculations) [2]

Answer

- (e) The students sketched a map of New Providence to indicate the constituencies closest to the school. This is shown in Figure 2B below.

**Figure 2B: Large -scale map of constituencies**



- (i) Which **TWO** constituencies would one expect the majority of students who attend the school to live in based on the map? Give a reason for your answer.

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[3]

- (ii) Suggest **TWO** reasons for 20% of students from Carmichael attending the school, while only 2.5% are from Sea Breeze.

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[4]

- (f) Table 6 below, shows the results of Question 3 (*How do you usually travel to school?*) in the questionnaire.

**Table 6**

**Answer to Question 3: *How do you usually travel to school?***

| Method of travel      | Number of students | Percentage |
|-----------------------|--------------------|------------|
| Private vehicle       | 80                 | 40         |
| Public bus/jitney     | 40                 | 20         |
| Government school bus |                    | 30         |
| Walk                  | 20                 | 10         |
| <b>Total</b>          | <b>200</b>         | <b>100</b> |

- (i) Complete the table by calculating the number of students who travel to school by the Government school bus. You should show your calculations. [2]

- (ii) What conclusions would the students make about **hypothesis 2**: ‘The majority of students travel to school by private vehicle’. Support your answer with evidence from table 6.

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[3]

**[TOTAL: 25 MARKS]**

### Question 3

A group of students in a 10th grade class were studying the weather and how to use weather recording instruments.

The students listened to the weather report for the day and discovered that the weather was forecast to change considerably the following day, so they decided to take some recordings to investigate the extent of these changes.

They agreed to test the following hypotheses:

**Hypothesis 1:** There is a relationship between changes in atmospheric pressure and change in rainfall.

**Hypothesis 2:** There is a relationship between changes in atmospheric pressure and change in wind speed and wind direction.

- (a) What instrument would they use to measure the following?

Temperature \_\_\_\_\_

Air Pressure \_\_\_\_\_

[2]

- (b) The students were told by their teacher to take measurements at 12.00 hours on the day before their investigation (Day 1) and another set at 12.00 on the day after their investigation (Day 3). All measurements would be taken over a 3 day period, one day before the expected weather change, the day of the expected weather change and the day after.

Suggest why the teacher told the students to take measurements over a three-day period.

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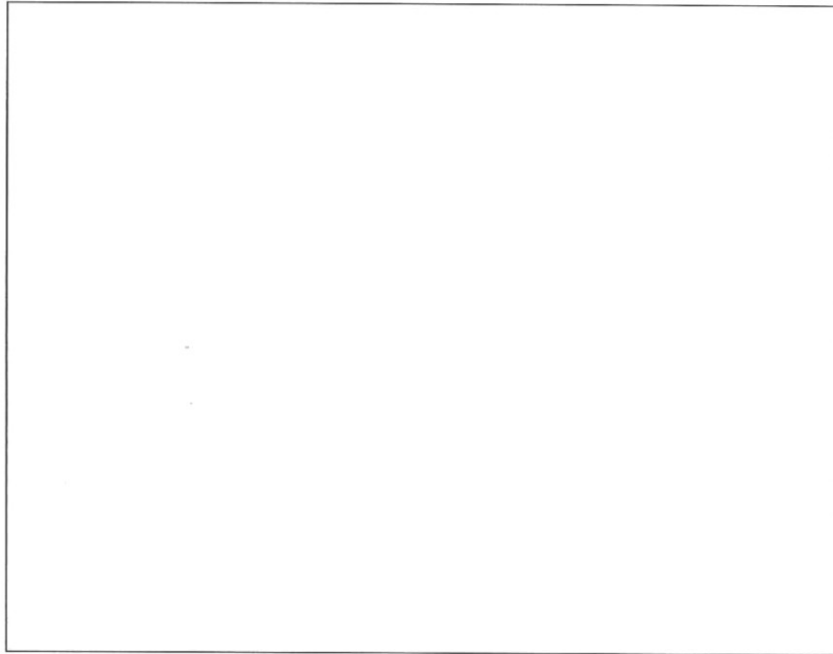
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[2]

(c) The students used the following measuring instruments: barometer, rain gauge, wind vane, anemometer, and a cloud chart showing the various types of cloud.

(i) In the box below, draw a labelled diagram of a rain gauge. Explain how the students made their measurements for rainfall.



[4]

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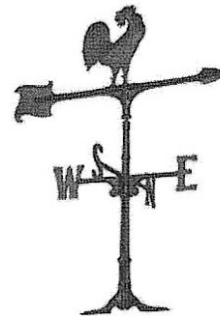
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- (ii) Fig. 3A and Fig. 3B below show an anemometer and wind vane. Study the images and explain how they measure wind speed and wind direction.

**Figure 3A**



**Figure 3B**



**Anemometer:**

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[2]

**Wind vane:**

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[2]

- (iii) What unit is used to measure cloud cover?

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[1]

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- (d) The recording sheet of the students' fieldwork is shown in Table 7, below.

**Table 7**

**Students' recording sheet**

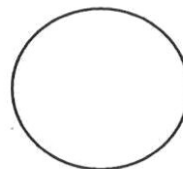
|                                 | Day 1   | Day 2        | Day 3  |
|---------------------------------|---------|--------------|--------|
| <b>Time</b>                     | 12:00   | 12:00        | 12:00  |
| <b>Air pressure (millibars)</b> | 1018    | 998          | 1022   |
|                                 |         |              |        |
| <b>Rainfall (mm)</b>            | 0       | 3            | 0      |
|                                 |         |              |        |
| <b>Wind speed (km per hour)</b> | 3       | 26           | 5      |
|                                 |         |              |        |
| <b>Wind direction</b>           | NW      |              | NW     |
|                                 |         |              |        |
| <b>Cloud type</b>               | Cumulus | Alto Cumulus | Cirrus |
|                                 |         |              |        |
| <b>Cloud cover</b>              | 2       | 6            | 3      |

**Figure 3C Key for Weather Station Symbols**

|                                   |  |                           |  |  |  |  |
|-----------------------------------|--|---------------------------|--|--|--|--|
| Clear sky                         |  | 5/8 covered               |  |  |  |  |
| covered 1/8 or less, but not zero |  | 6/8 covered               |  |  |  |  |
| 2/8 covered                       |  | 7/8 covered               |  |  |  |  |
| 3/8 covered                       |  | sky completely covered    |  |  |  |  |
| 4/8 covered                       |  | sky obscured, e.g. by fog |  |  |  |  |

- (i) Study the wind vane in Figure 3B and use this to fill in the wind direction at 12.00 hours on Day 2. [1]
- (ii) Use the information from Table 7 to complete a station model to show the readings for cloud cover, cloud type, wind direction and wind speed for Day 1 at 12.00 hours.

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- (e) Having completed the weather measurements, the students then looked at their hypotheses.

- (i) They decided that **Hypothesis 1:** *There is a relationship between changes in atmospheric pressure and change in rainfall was true.*

Describe the relationship between atmospheric pressure and rainfall. Use data from Table 7 to support your description.

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[3]

- (ii) The students also came to the conclusion that **Hypothesis 2:** *There is a relationship between changes in atmospheric pressure and change in wind speed and wind direction* was also true. How did wind speed and wind direction change as atmospheric pressure changed? Support your answer with data from Table 7.

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[4]

[TOTAL: 25 MARKS]

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