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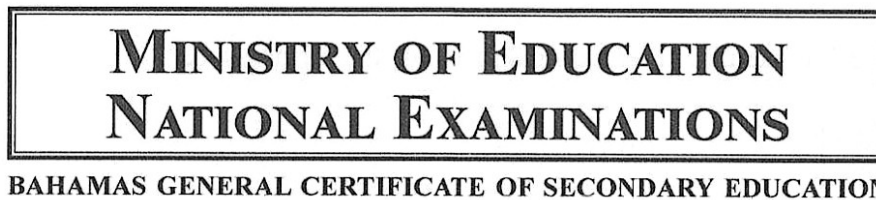
School Number	Candidate Number
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GEOGRAPHY

PAPER 1 5109/1

Wednesday **29 MAY 2024** 9:00 A.M.–10:00 A.M.

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



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.

Figure 1.1 shows two types of barometers

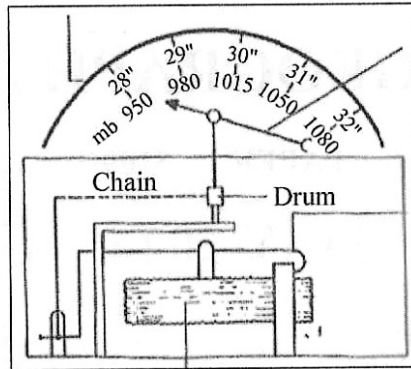


Figure 1.1

1. Using Figure 1.1, identify the reading shown for the air pressure?
 - A. 950 mb
 - B. 980 mb
 - C. 1015 mb
 - D. 1080 mb

2. Using evidence from the photograph only, select the statement that best describes what has happened to the rock shown?



- A. The rock has been split apart by the action of burrowing animals
 - B. The rock has been split apart by the action of tree roots
 - C. The rock has been split apart by the action of acid rain
 - D. The rock has been split apart by the action of ice



3. Rainfall is more likely to runoff on which type of surface?

- A. Highly permeable
- B. Covered with vegetation
- C. Steeply sloped
- D. Limestone

4. By how much does the height of the land rise?

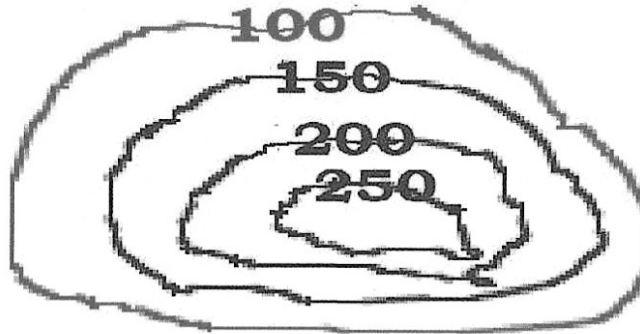


Figure 1.2

- A. 25 feet
- B. 50 feet
- C. 100 feet
- D. 150 feet



Figure 1.3 shows the origin of stop-over visitors to a country in thousands

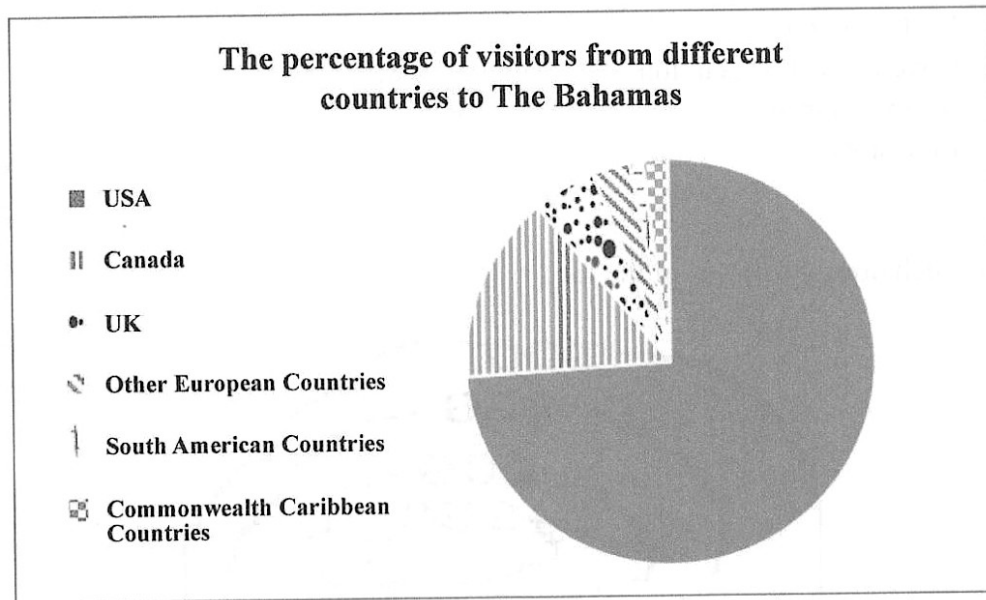


Figure 1.3

5. What percentage of visitors were from the USA?
- A. 60%
 - B. 63%
 - C. 74%
 - D. 78%



Figure 1.4 shows the structure of a hurricane.

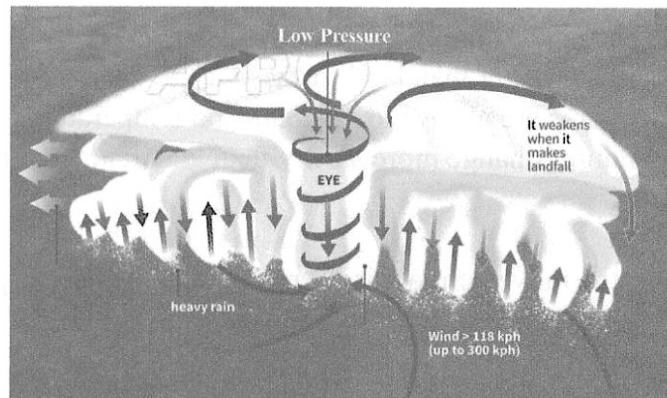
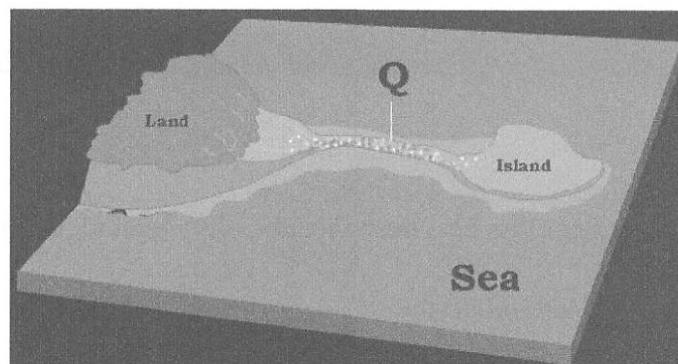


Figure 1.4

6. What two features describe a hurricane?
- A. High pressure with a lot of rain
 - B. High pressure with strong winds
 - C. Low pressure with a lot of rain
 - D. Low pressure with gentle winds
7. Identify the depositional feature labelled 'Q' in the photo below.



- A. Coral reef
- B. Levee
- C. Spit
- D. Tombolo



8. Large bodies of water have a moderating effect on climate mainly because;
- A. Water gains heat more rapidly than land
 - B. Water surfaces are flatter than land surfaces
 - C. Water temperatures are always lower than land temperatures
 - D. Water temperatures change more slowly than land temperatures

Using Figure 1.5, which shows the movement of air over a mountain; answer questions 9 and 10 which follow.

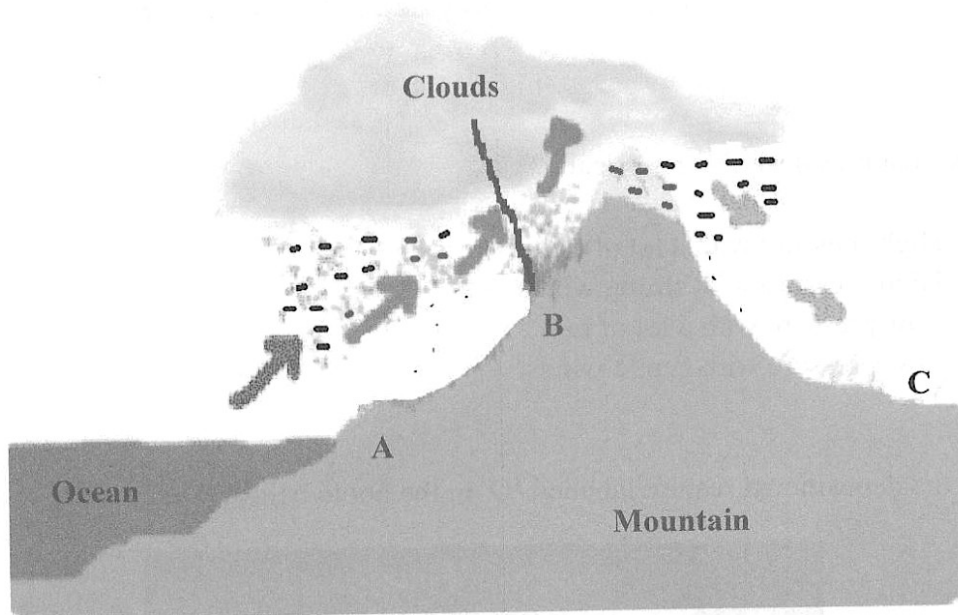


Figure 1.5

9. Choose the correct statement that best describes the climate at location B.
- A. Location B is cooler and drier
 - B. Location B is warmer and drier
 - C. Location B is cooler and wetter
 - D. Location B is warmer and wetter



10. Identify the processes which result in cloud formation shown in Fig. 1.5?
- A. Rising air expanding and cooling
 - B. Rising air compressing and cooling
 - C. Rising air expanding and warming
 - D. Rising air compressing and warming
11. Using Figure 1.6 which shows the global distribution of earthquakes. Identify the description that best describes the location of earthquakes.

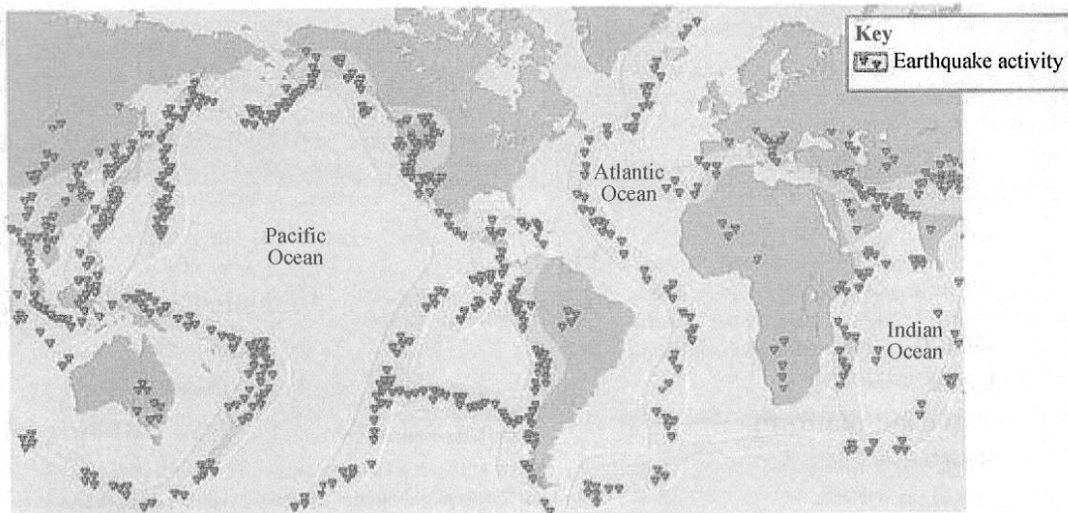


Figure 1.6

- A. In no set pattern
 - B. Near the equator
 - C. Along plate boundaries
 - D. Near the poles
12. On which of the following landforms are anticlines and synclines located?
- A. Volcanoes
 - B. Fold mountains
 - C. Block Mountain
 - D. Rift Valley



13. Using Figure 1.7, a photograph of a coast line, identify the feature labelled X.

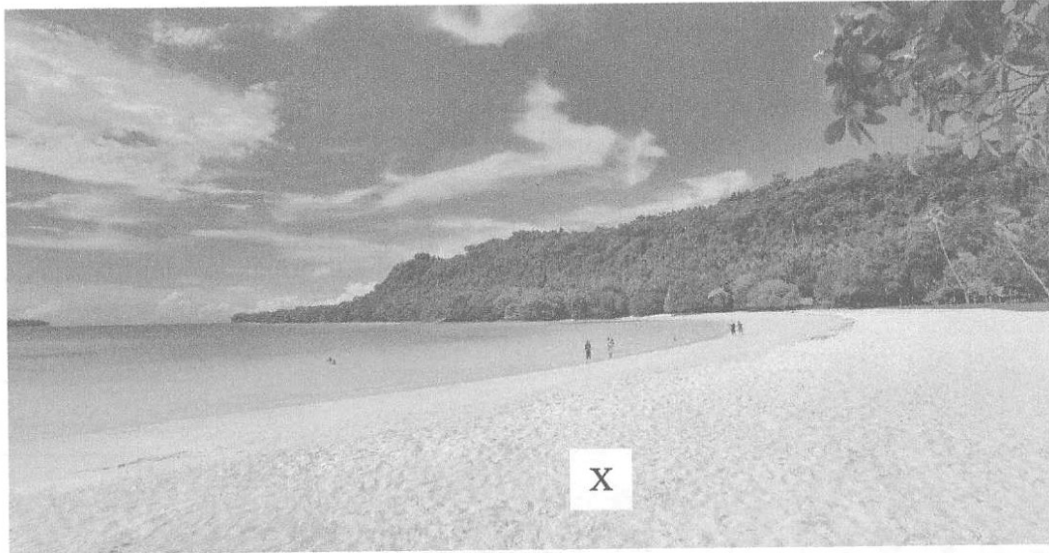


Figure 1.7

- A. Beach
 - B. Cave
 - C. Wave cut platform
 - D. Spit
14. Which of the following is a process of river transportation?
- A. Suspension
 - B. Abrasion
 - C. Hydraulic Action
 - D. Attrition



Refer to Figure 1.8 which shows a coastal area to answer questions 15 and 16 which follow.

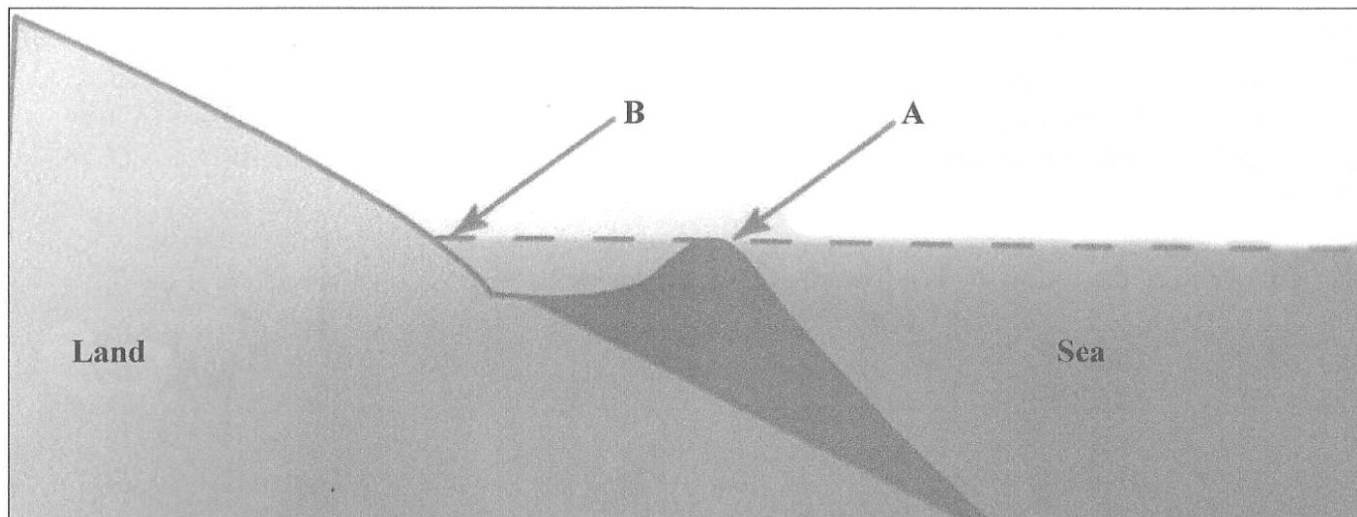


Figure 1.8

15. What feature is labelled A?
- A. Continental Shelf
 - B. Barrier Reef
 - C. Patch Reef
 - D. Stump
16. What is the name given to the body of water at B?
- A. Deep sea trench
 - B. Estuary
 - C. Lagoon
 - D. River

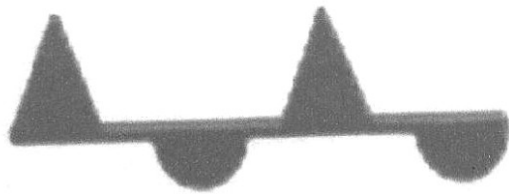
17. What is the most likely effect of movement at transform plate margins?

- A. Earthquake
- B. Rift valley
- C. Weathering
- D. Volcanic eruption

18. Which of the following is a feature of coastal erosion?

- A. Cliff
- B. Sandbar
- C. Spit
- D. Tombolo

19. What is the type of front shown in the diagram?



- A. Cold
- B. Occluded
- C. Stationary
- D. Warm

20. What is the method of soil conservation in which land is left to rest and regenerate for a period of time?

- A. Contour ploughing
- B. Windbreaks
- C. Fallowing
- D. Terracing



21. Which of the following mainland countries are a member of Caricom?

- A. Guyana and Venezuela
- B. Honduras and USA
- C. Belize and Guyana
- D. Mexico and Columbia

22. What is the crystallised form of calcium carbonate called?

- A. Aragonite
- B. Bauxite
- C. Coal
- D. Diamond

23. Urbanisation refers to

- A. The migration of rural people to the city
- B. The growth in the proportion of city dwellers in a country
- C. The growth of a city in an orderly manner
- D. The problems arising from the increase in the city's population

24. The transport industry is considered to be which type of industry?

- A. Primary
- B. Secondary
- C. Tertiary
- D. Quaternary

25. Which of the following types of accommodation is best for eco-tourism?
- A. High rise hotels with hundreds of rooms
 - B. Many low-lying buildings with golf courses and parking lots
 - C. Low level cabins catering for small numbers of people involved in hunting
 - D. Low level buildings with facilities for bird watching and hiking
26. Which of the following is the major characteristic of continental climates?
- A. Extreme differences in temperatures on an annual basis
 - B. Moderate annual temperatures and rainfall per year
 - C. Strong influences of wind and ocean currents
 - D. Heavy daily convectional rainfall
27. What is the name given to the starting point of a river?
- A. Mouth
 - B. Source
 - C. Drainage Basin
 - D. Watershed

Use the Ordnance Survey Map extract of Trinidad to answer the questions below.

28. What is the four figure grid reference of the fire station at the airport that is in the SW portion of the map?
- A. 8071
 - B. 8072
 - C. 7180
 - D. 8172



29. What is the compass bearing of the fire station at Piarco International Airport **from** the Police Station at the airport?
- A. 87°
 - B. 135°
 - C. 170°
 - D. 350°
30. The Caroni River is in the SW of the map. In which direction is it flowing?
- A. North
 - B. South
 - C. East
 - D. West
31. (a) (i) What is the length of the Golden Grove Road from the intersection at 810738 to the junction at 815758? (Give your answer in kilometres)
- _____ [1]
- (ii) What is the direction of the stadium (8776) at Arima **from** the prison (8174) at Arouca?
- _____ [1]
- (iii) Describe the distribution of sugar cane plantations.
- _____ [1]
- (iv) What is the dominant natural vegetation in grid 9076?
- _____ [1]
- (b) (i) What map evidence suggests that the rock type is mostly impermeable?
- _____ [1]
- (ii) What **TWO** conditions exist south of grid line 71, which make civilisation possible?
1. _____
2. _____ [2]

32. Study the table below which shows labour force data for a country.

	Labour Force (number of population of working age)	Number Employed	Number Unemployed
Both sexes	456,200	405,500	50,700
Male	307,300	279,200	
Female	148,900	126,300	22,600

(a) (i) What percentage of the labour force is female? Show your calculations

_____ %

[2]

(ii) Complete the table to show the number of unemployed males. [1]

(iii) Identify **TWO** methods that could be used to represent the information on the table.

1. _____

2. _____ [2]

(b) Explain **TWO** effects of a high rate of unemployment.

1. _____

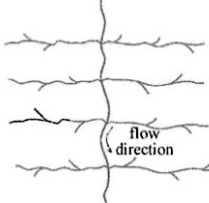
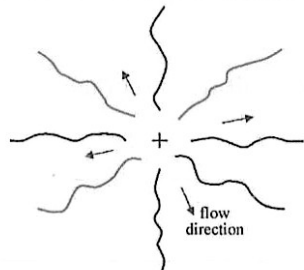
2. _____

_____ [4]



33. Study the diagram showing three types of drainage patterns.

- (a) Complete the table by naming the pattern and describing the physical landscape on which each is likely to form.

	Drainage Pattern	Nature of landscape
		
		
		

[6]

- (b) State **TWO** characteristics of destructive waves.

1. _____
2. _____ [2]



- (c) (i) List **TWO** landforms produced by destructive waves.

1. _____

2. _____ [2]

- (ii) Explain **TWO** purposes of building groynes along a coast.

1. _____

2. _____

_____ [2]

- (iii) Explain **TWO** disadvantages of groynes along the coast.

_____ [2]



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5109/2

BGCSE

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GEOGRAPHY

PAPER 2 5109/2

Wednesday

5 JUNE 2024

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 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 28 printed pages and 4 blank pages.

Question 1

- (a) A map showing the earth's main tectonic plates.



Figure 1.1

- (i) Identify the type of plate margin shown at **A**.
_____ [1]
- (ii) Identify the tectonic plates shown at **B** and **C**.
_____ [2]
- (iii) Describe the transform plate margin and give an example of where it is seen on the map.

_____ [3]
- (iv) Explain why volcanoes are found at destructive margins.

_____ [4]



- (b) Figure 1.2 shows rocks that have been folded.

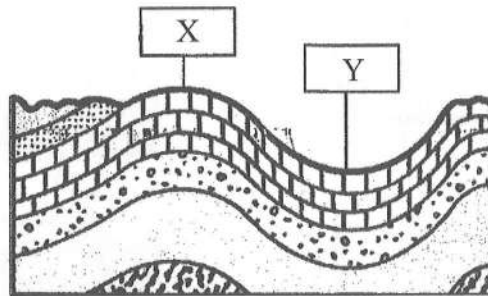


Figure 1.2

- (i) Give the names of the parts of the fold shown at X and Y.

X _____

Y _____ [2]

- (ii) Limestone is one of the rocks which has been folded.

What type of rock is limestone?

_____ [1]

Characteristics of limestone

_____ [2]

- (iii) Explain the formation of young fold mountains.

_____ [4]

Figures 1.3 and 1.4 show two features that have been created as a result of faulting.

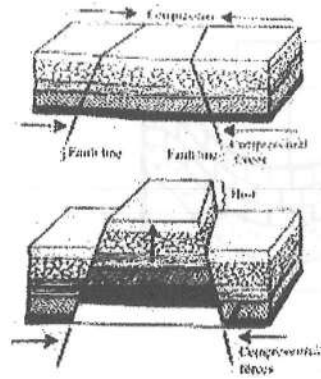


Figure 1.3

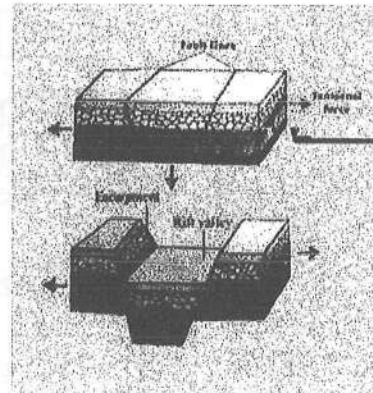


Figure 1.4

(c) Compare the formation of rift valleys to the formation of Block Mountains.

[6]

[TOTAL: 25 MARKS]



Question 2

Study the photo below, which shows devastation caused by an earthquake.



Figure 2.1

Study the map below, which shows the Caribbean region.

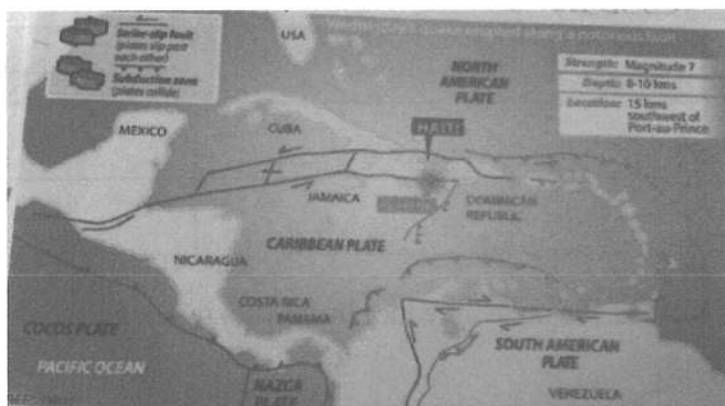


Figure 2.2

- (a) (i) Define the term 'earthquake'.
- _____
- _____ [1]
- (ii) What type of plate margin is mainly associated with earthquakes?
- _____ [1]
- (iii) Using Figure 2.2, identify **TWO** countries in the Caribbean where earthquakes happen.
- _____ [2]

- (iv) Using evidence from Figures 2.1 and 2.2, explain the cause of an earthquake.

[2]

- (b) (i) List **TWO** physical factors which affects the impact of an earthquake.

[2]

- (ii) Describe **TWO** primary and secondary impacts of an earthquake as shown in Figure 2.1. [4]

Primary Impact	Secondary Impact
1	
2	

- (c) Explain what can be done to reduce the impact of earthquakes.

[6]



- (d) The diagram below shows the features of an earthquake.

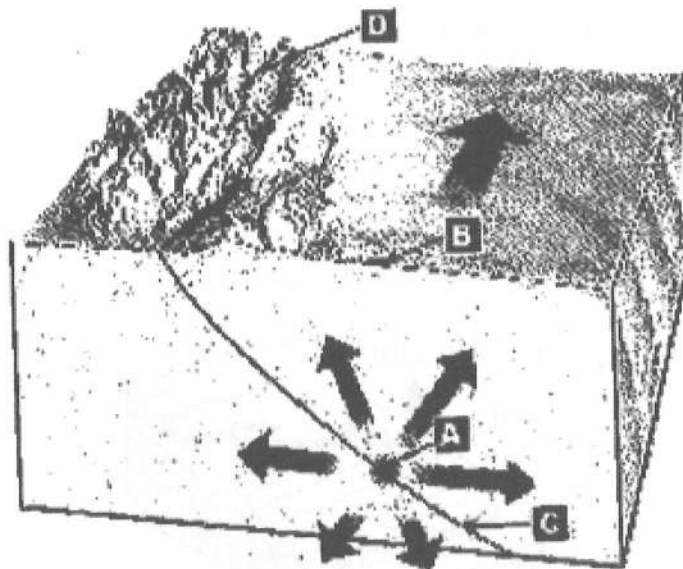


Figure 2.3

Name the features labelled A–D.

Feature A _____

Feature B _____

Feature C _____

Feature D _____ [4]

- (e) Explain why it is often difficult to rescue people after an earthquake.

_____ [3]

[TOTAL: 25 MARKS]

[Turn over]

Question 3

- (a) (i) What is mass movement?

_____ [2]

Figure 3.1 shows a type of mass movement.

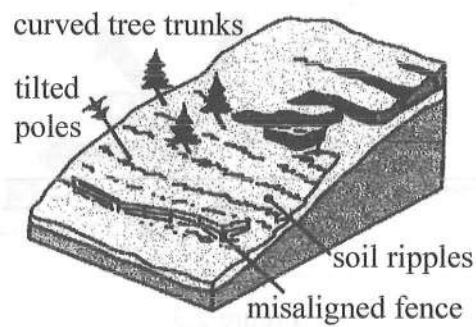


Figure 3.1

- (ii) Using Figure 3.1, name the type of mass movement shown.

_____ [1]

- (iii) What evidence is there in Figure 3.1 to show movement of material along the slope?

_____ [2]

- (iv) Using Figure 3.1, explain **ONE** reason for this movement.

_____ [2]

- (b) Discuss **TWO** other natural/physical causes of mass movement along a slope.

_____ [2]



- (c) Complete the table using the types of mass movement listed below.

Rockslide Earth creep Mudflow Avalanche

Fast Types of Mass Wasting	Slow Types of Mass Wasting

[4]

- (d) Figure 3.2 shows a landslide.



Figure 3.2

- (i) Name **TWO** countries in the Caribbean that experience landslides.

1. _____

2. _____ [2]

- (ii) Using Figure 3.2, describe **TWO** effects of landslides on the environment.

1. _____

2. _____

_____ [4]

- (iii) Explain **THREE** strategies that may be implemented to minimise mass wasting effects.

1. _____

2. _____

3. _____

[6]

[TOTAL: 25 MARKS]



Question 4

- (a) The diagram below shows a type of rainfall.

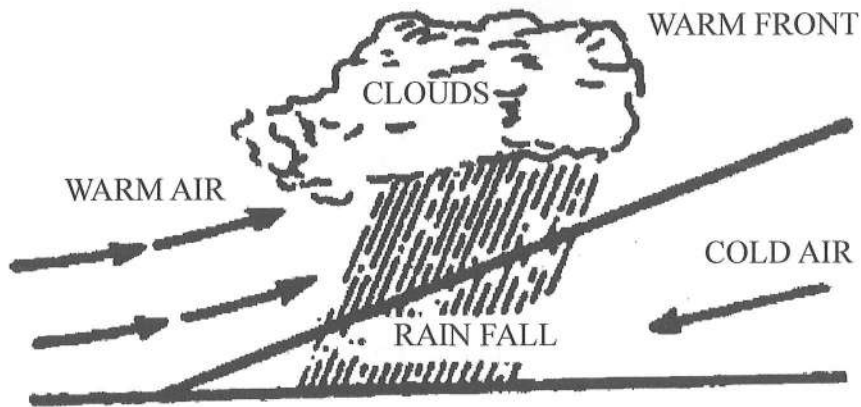


Figure 4.1

- (i) State the type of rainfall shown.

_____ [1]

- (ii) Using the diagram, explain how the type of rainfall shown is formed.

_____ [4]

- (iii) State the **TWO** other types of rainfall.

_____ [2]

- (b) Study the weather station below to answer questions (i) – (v)

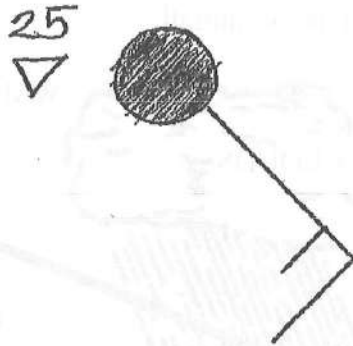


Figure 4.2

State the following:

- (i) Wind direction _____
- (ii) Wind speed _____
- (iii) Temperature _____
- (iv) The amount of cloud cover _____
- (v) The rainfall conditions _____ [5]

- (c) (i) Explain the difference between weather and climate.

[4]

- (ii) Describe **THREE** climate characteristics of an Equatorial climate.

[3]



- (d) Explain **THREE** ways in which plants adapt to conditions in an equatorial climate.

[6]

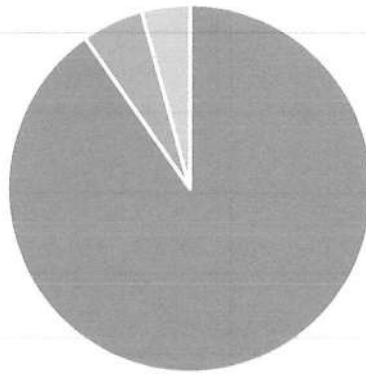
[TOTAL: 25 MARKS]



Question 5

Figure 5.1 shows three types of migration

The Three Types of Migration



■ Voluntary Migration ■ Environmental Health-related Migration ■ Forced Migration

Figure 5.1

- (a) (i) Define the term 'migration'.
_____ [1]
- (ii) What is the main cause of migration?
_____ [1]
- (iii) What is another term used for migrants who are forced to move?
_____ [1]
- (iv) Using background knowledge, state **TWO** reasons for the following?
- Forced migration
1. _____
2. _____ [2]
- Voluntary migration
1. _____
2. _____ [2]



(b) State whether the following statement describe short-term or long-term migration.

(i) _____ college student on holiday in Florida

(ii) _____ unemployed man leaves Panama to work in
Canada

(iii) _____ a wealthy doctor leaves England to spend time
with his sick mother. [3]

(c) (i) Name the country from which The Bahamas receives most of its migrants.

_____ [1]

(ii) State **FOUR** challenges that illegal migrants may face upon arrival to The
Bahamas.

_____ [4]

(iii) Discuss **THREE** strategies used by the government of The Bahamas to lower
the number of illegal migrants.

_____ [6]



(d) Explain **TWO** positive impacts that migration has on the receiving country.

[4]

[TOTAL: 25 MARKS]



Question 6

- (a) Study Figure 6.1 which shows a photo related to tourist arrivals in The Bahamas.



Figure 6.1

- (i) Use Figure 6.1 to state the type of tourist who come to The Bahamas using the vessels shown.

_____ [1]

- (ii) Using information only from Figure 6.1, list **TWO** natural factors that make The Bahamas a popular tourist destination.

_____ [2]

- (iii) Use evidence from Figure 6.1 and your background knowledge to suggest **THREE** characteristics that make the Port of Nassau ideal for the vessels.

_____ [3]

- (iv) Describe **TWO** negative effects of tourism for the marine environment in The Bahamas.

[4]

- (b) (i) Explain the difference between domestic tourism and international tourism.

Domestic Tourism:

[1]

International Tourism:

[1]



Figure 6.2 shows information about tourist arrivals for the various destination countries in the Caribbean in 2015.

No	Destination	Number of tourist arrivals
1	Anguilla	62,084
2	Antigua and Barbuda	245,384
3	Aruba	732,514
4	Bahamas	1,514,532
5	Barbados	547, 534

Figure 6.2

- (ii) Use the information from Figure 6.2 to list the top three countries with the greatest tourist arrivals for 2015. (Your answer should be in descending order.)

1 st	Bahamas	most	↓
2 nd	_____		
3 rd	_____		
4 th	_____		
5 th	Anguilla	least	

[3]

- (iii) Explain **FOUR** strategies used by Caribbean countries to attract tourists to their country.

[4]

- (c) (i) Give **TWO** examples of eco-tourist activities.

Examples of eco-tourist activities

1. _____
2. _____ [2]

- (ii) Explain **TWO** ways in which eco-tourism benefits the sustainable development of areas.

1. _____

2. _____
_____ [4]

[TOTAL: 25 MARKS]



Question 7

Figure 7.1 shows a type of farming.



Figure 7.1

- (a) (i) Describe the type of farming shown with the correct answer circled.

Arable

Mixed

Pastoral

_____ [1]

- (ii) Describe **TWO** differences between intensive commercial farming and extensive commercial farming.

_____ [2]

(b) A farm needs inputs, processes and outputs. State whether the following are an input, output or a process.

(i) Seeds _____

(ii) Meat _____

(iii) Breeding _____ [3]

(c) Study Figure 7.2 which shows the exportation of bananas in the eastern Caribbean.

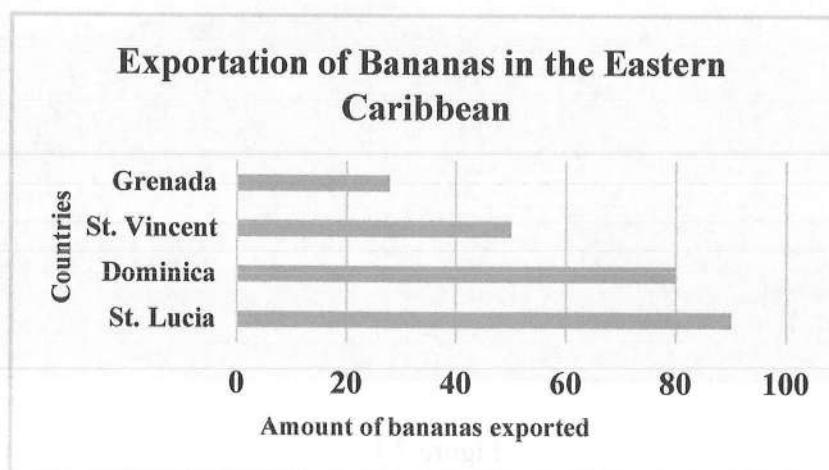


Figure 7.2

(i) Which country is the largest exporter of bananas?

_____ [1]

(ii) What percentage of bananas is exported by Dominica?

_____ [1]



- (iii) Suggest **THREE** ways in which the bananas may be used?

[3]

- (d) Study Figure 7.3 a map showing the eastern Caribbean countries.

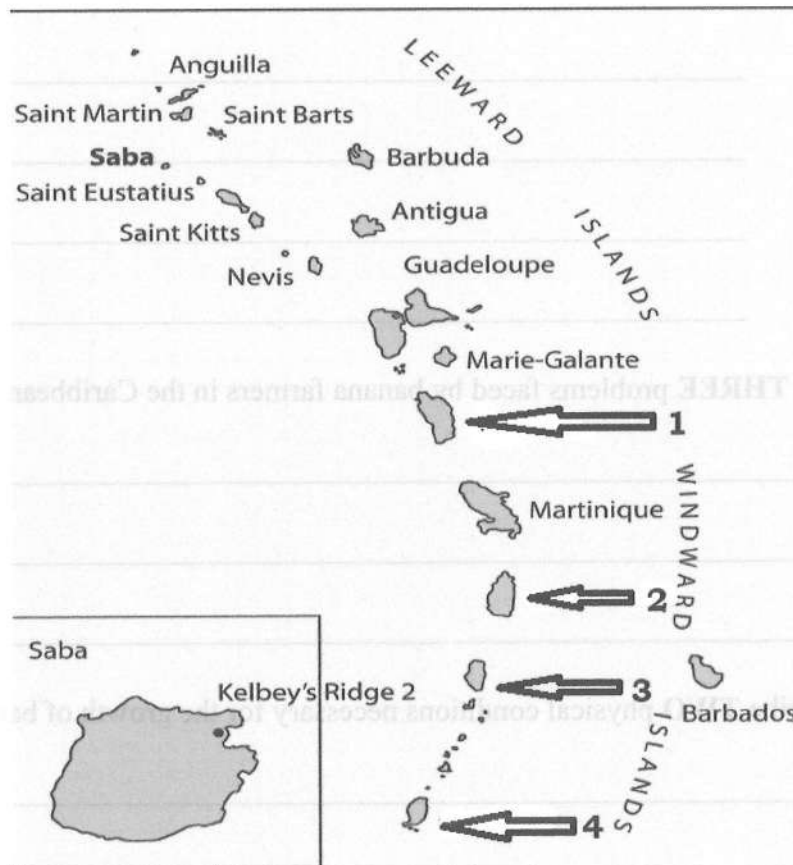


Figure 7.3

- (i) Name the **FOUR** banana exporting countries labelled 1–4 as shown in Figure 7.3.

1. _____

2. _____

3. _____

4. _____ [4]

- (ii) Explain the importance of the banana industry for the economy.

_____ [5]

- (e) State **THREE** problems faced by banana farmers in the Caribbean.

_____ [3]

- (f) Describe **TWO** physical conditions necessary for the growth of bananas.

_____ [2]

[TOTAL: 25 MARKS]



Question 8

Figure 8.1 shows a rural and urban settlement.

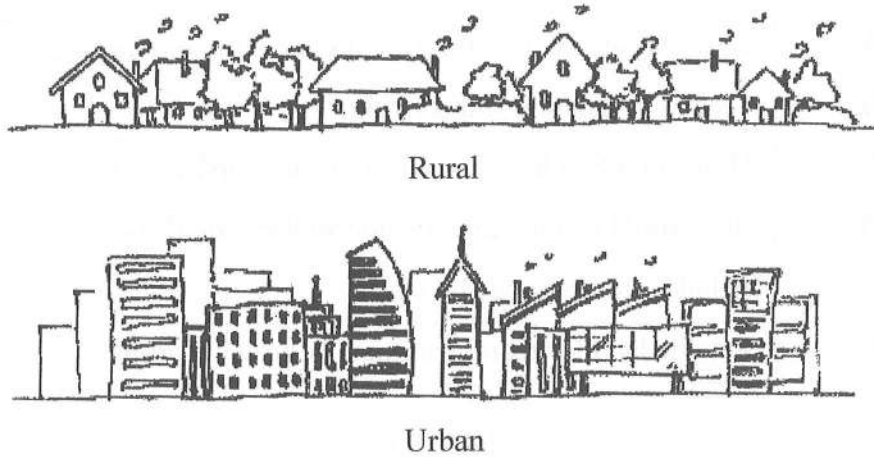


Figure 8.1

(a) With reference to Figure 8.1 define the following terms:

(i) Rural settlement

_____ [1]

(ii) Urban settlement

_____ [1]

(b) Complete the table below to compare the characteristics of a rural and urban settlement.

Rural Settlement	Urban Settlement
(i) Building Height: _____	_____
(ii) Transportation: _____	_____
(iii) Settlement Pattern: _____	_____

[6]

- (c) “Early settlers looked for six factors in a settlement site.” Table 8.1 gives the factors that early settlers considered.

Letter	Definition
A	Near a spring or river for drinking, cooking or washing.
B	Needed for heating and cooking
C	Above flooding levels and away from marshy areas
D	Sites would be on steep hill side so they could see all around.
E	Includes stone, wood and clay.
F	Suitable land for rearing animals or growing crops

Table 8.1

For each of the following factors match the correct definition from Table 8.1 with the correct letter.

- (i) Dry point site _____
- (ii) Building materials _____
- (iii) A water supply _____
- (iv) A fuel supply _____
- (v) Food supplies _____
- (vi) Defence _____

[6]

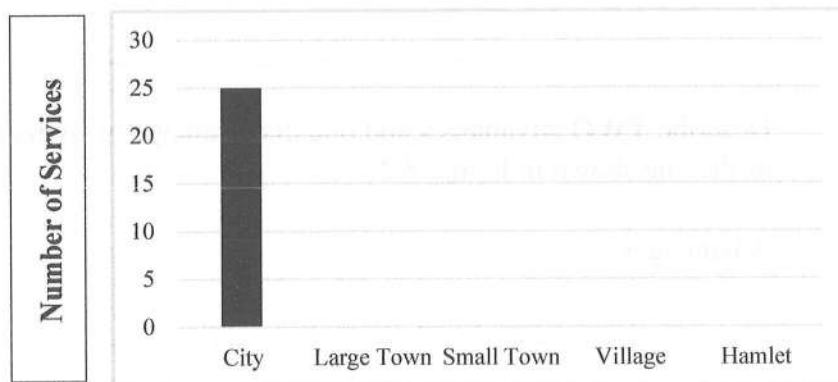


- (d) Table 8.2 shows a number of services provided by five different settlements.

	City	Large town	Small town	Village	Hamlet
Settlement	A	B	C	D	E
Services					
University	6	0	0	0	0
Football Teams	4	3	0	0	0
Secondary Schools	7	10	3	0	0
Post Office	8	3	2	1	0
Corner Shop	0	0	0	2	1
Population	500,000	100,000	20,000	1,000	20

Table 8.2

- (i) Use the data from Table 8.2 to complete the bar graph to show the number of services provided by each settlement. One has been done for you. [4]



- (ii) State **THREE** other services not shown in Table 8.2 that can be found in a small town.

_____ [3]

- (e) Study Figure 8.2, which is a map showing the settlement of Matthew Town, Inagua, in The Bahamas.

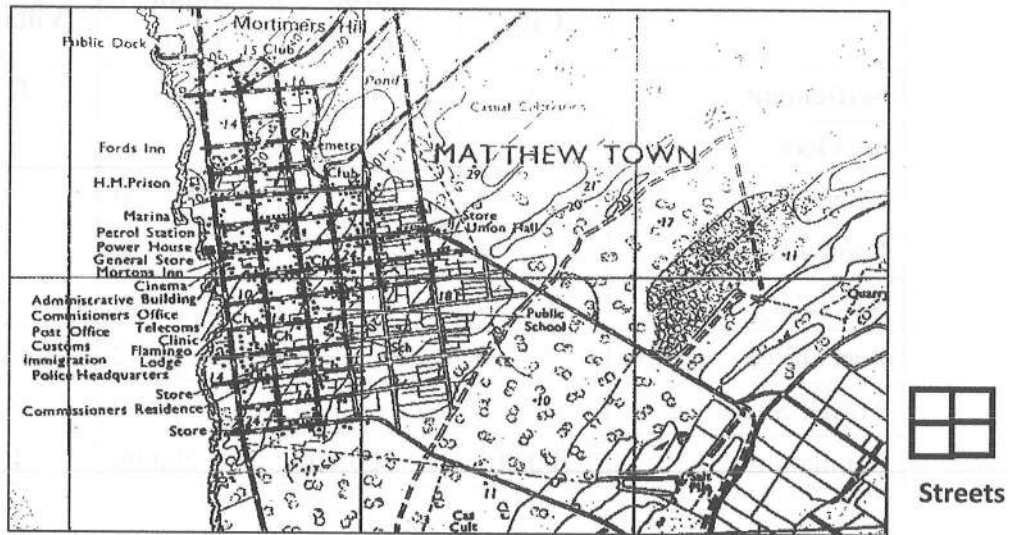


Figure 8.2

- (i) Identify the settlement pattern shown on the map.
- _____ [1]
- (ii) Describe **TWO** advantages and one disadvantage of living in a settlement such as the one shown in Figure 8.2.

Advantages

_____ [2]

Disadvantage

_____ [1]

[TOTAL: 25 MARKS]



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School Number	Candidate Number
Surname	Initials

FOR EXAMINER'S USE ONLY	
1	
2	
3	
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8	
TOTAL	



5109/5

BGCSE

School Number	Candidate Number
Surname and Initials	

GEOGRAPHY

PAPER 5 5109/5

Wednesday **29 MAY 2024** 10:30 A.M.–12:00 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.

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

Question 1

A geography class conducted a survey using a questionnaire on the island of Inagua, The Bahamas to find out what are the major attractions for tourists and locals. Three hundred persons were interviewed.

The hypotheses for this study are as follows:

Hypothesis 1 – More locals visit the attractions than tourists.

Hypothesis 2 – The majority of tourists surveyed will visit beaches.

Table 1.1 shows the results of the findings.

	National Park	Lighthouse	Beaches	Sports Fishing	Other
Locals	60	10	21	4	5
Tourists	90	40	57	8	5

Table 1.1

Definition

Eco-tourist: someone who uses the natural environment for leisure.

Table 1.1 shows the results of their findings

(a) Study Table 1.1 to answer questions a (i) – a (iii).

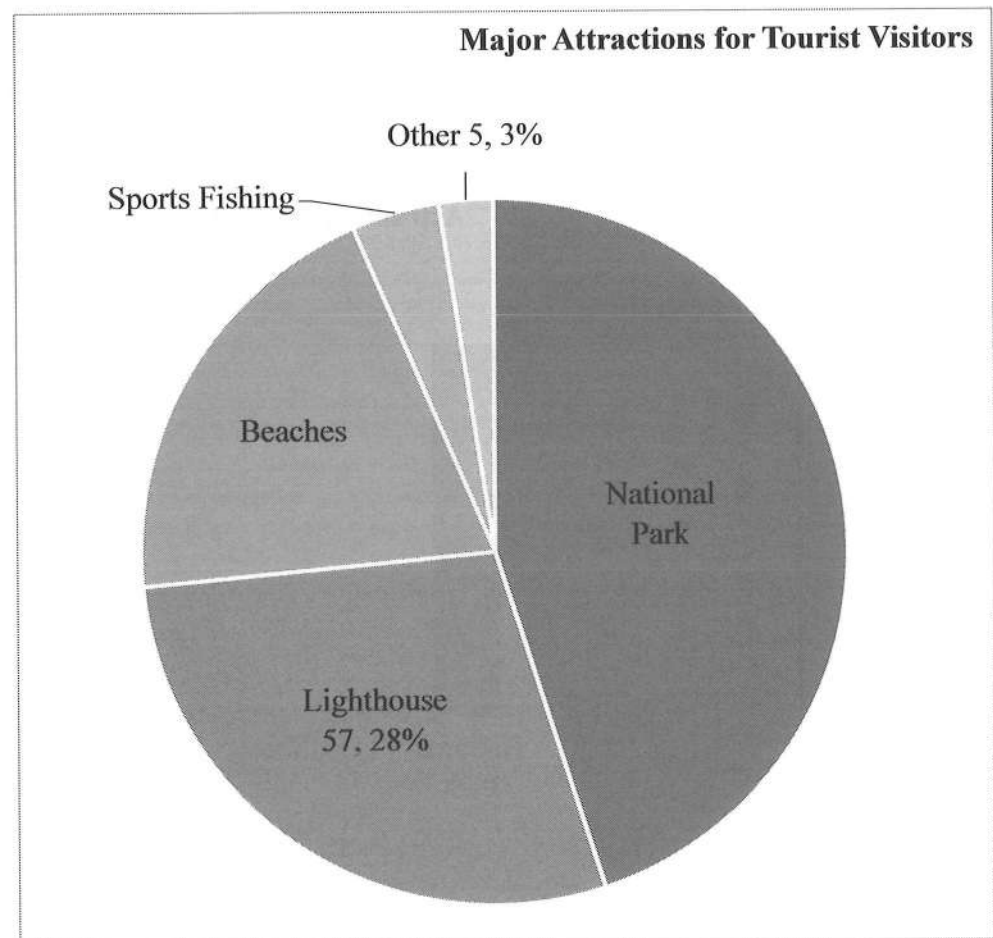
The students decided to conduct this investigation at Inagua's National Park.

- (i) Describe **THREE** pre-field work activities that should be carried out before conducting this study.

- (ii) Which of the following attractions would provide the **most** activities for an ecotourist to engage in? Tick your answer. [1]

Attractions	Tick (✓)
National Park	
Lighthouse	
Sports Fishing	

- (iii) Complete the pie graph below using the data from Table 1.1., to show the raw data and percentages collected for National Parks, Sports Fishing and Beaches. Two examples have been done for you. [6]



- (b) Suggest **FOUR** questions for the questionnaire that can be used to investigate Hypotheses 1 and 2.

1. _____

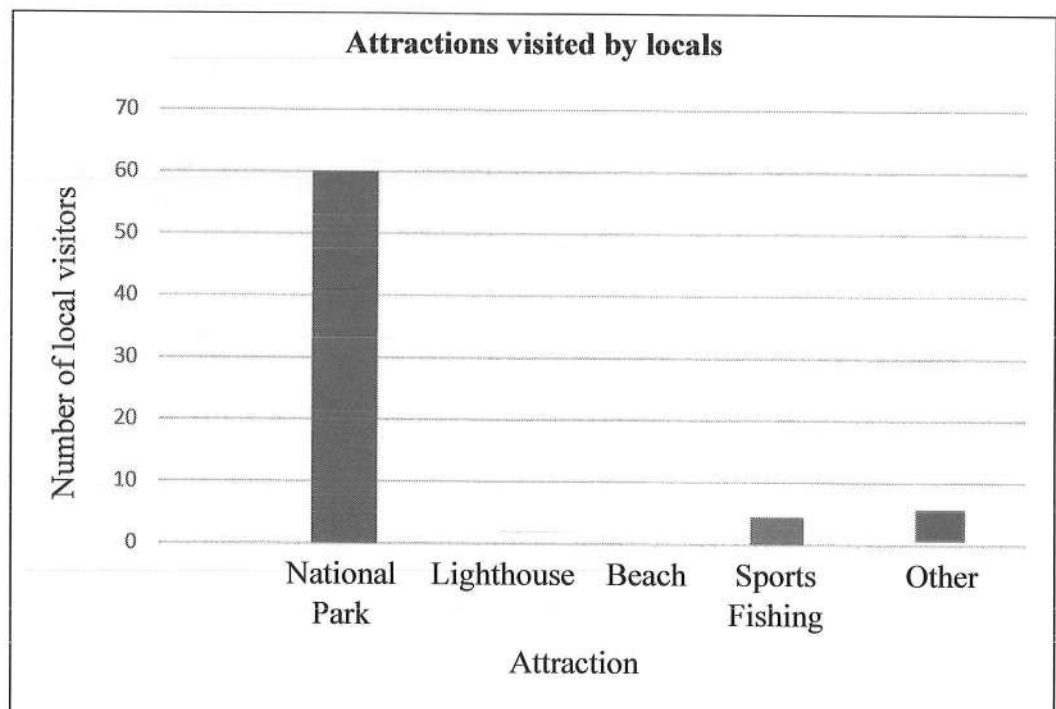
2. _____

3. _____

4. _____

_____ [4]

- (c) (i) Complete the bar graph using the data in Table 1.1 for locals visiting the lighthouse and the beach. [2]



- (ii) Using the information from Table 1.1. What percentage of locals visited the lighthouse?

_____ [1]

- (d) An increase in visitors to Inagua's National Park may result in disturbing ecosystems e.g. birds and nesting sites.

- (i) Explain **TWO** solutions to the problem mentioned above.

1. _____

2. _____

_____ [4]

- (ii) Suggest **TWO other** impacts that an increase in visitors to Inagua's National Park may have on the natural environment.

1. _____

2. _____

_____ [2]

- (e) Look again at both of the Hypotheses at the start of question 1. State whether each Hypothesis was true or false and give a reason why using the data from Table 1.1.

Hypothesis 1 is _____

Reason

Hypothesis 2 is _____

Reason

_____ [2]

[TOTAL: 25 MARKS]

[Turn over

Question 2

A class of students in the town of Nassau, The Bahamas wanted to find out how the construction of a new high rise condominium affected the flow of traffic in the town. They decided to do a traffic survey to investigate this issue. Each student chose different hypotheses to investigate.

One student tested the following hypotheses:

Hypothesis 1: Cars are the main type (category) of vehicle in the town throughout the day.

Hypothesis 2: The percentage of heavy equipment vehicles (cement trucks, tractors etc.) is greatest during the early morning part of the day.

(a) To investigate the hypotheses the student did a traffic survey at four sites around the town centre.

(i) List **TWO** materials needed to carry out this study.

1. _____

2. _____ [2]

(ii) State **THREE** procedures that must be followed by all students when completing a traffic survey. These will ensure that the results are reliable.

1. _____

2. _____

3. _____

_____ [3]

- (iii) State **ONE** precaution all students should take when completing this study? Give a reason for your answer.

Safety Precaution:

_____ [1]

Reason:

_____ [1]

- (b) The students decided to count the traffic at the four sites around the town centre for 2 hours in the morning and 2 hours in the afternoon part of the day. The overall results of the morning and afternoon traffic counts are shown in Tables 2.1 and 2.2.

Results of the Traffic Survey

Time: 7:30 am – 9:30 am

Type of Vehicle	Survey Site				Total	Percentage (%) of total
	1	2	3	4		
Cars	56	80	120	107	363	79
Heavy Equipment Vehicle	1	5	3	0	9	2
Lorry/Van	12	8	14	6	40	9
Motorbike	2	1	4	3	10	2
Public bus (Jitney)	5	5	7	5	22	5
Taxi	1	3	4	2	10	2
Bicycle	0	1	0	2	3	1
Total						

Table 2.1

(i) Using the data provided, complete Table 2.1 to show the total amount of vehicles counted during the morning period of the traffic survey. [1]

(ii) Which types of vehicles received the exact same total?

_____ [2]

Results of Traffic Survey
Time: 12:30 pm – 2:30 pm

Type of Vehicle	Survey Site				Total	Percentage (%) of total
	1	2	3	4		
Cars	33	45	70	57	205	75
Heavy Equipment Vehicle	1	0	2	1	4	2
Lorry/Van	8	5	10	3	26	9
Motorbike	0	1	2	2	5	2
Public bus (Jitney)	5	5	7	5	22	8
Taxi	0	3	2	2	7	3
Bicycle	1	0	0	1	2	1
Total					271	

Table 2.2

(iii) Using the data from both tables, what do the results show about the number of cars counted between the morning and afternoon period of the survey?

Tick (✓) your answer below.

[1]

	Tick (✓)
The number of cars increase	
The number of cars is the same	
The number of cars decrease	

(iv) Provide **ONE** possible reason for your answer in (b) (iii).

_____ [1]

- (v) A sample of the students' recording sheet is shown in Figure 2.1 below. Use the data from Table 2.2 to complete the recording sheet for Site 3. [4]

Recording Sheet

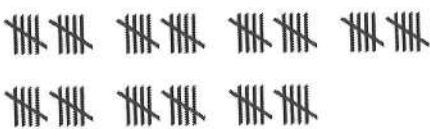
Site (Station) 3:		
Type of Vehicle	Tally	Total
Cars		70
Heavy Equipment Vehicle		2
Lorry/Van		_____
Motorbike		2
Public bus (Jitney)		7
Taxi		2
Bicycle		0
Overall total for vehicles		_____

Figure 2.1

- (vi) Using Tables 2.1 and 2.2, which site had the highest number of vehicles?

_____ [1]

Hypothesis 1 states that Cars are the main type (category) of vehicles in the town throughout the day.

- (c) With reference to the hypothesis given what conclusions would you make about Hypothesis 1? Support your answer with evidence from Tables 2.1 and 2.2.

[4]

- (d) The students decided that Hypothesis 2: The percentage of heavy equipment vehicles (cement trucks, tractors etc.) is greatest during the early morning part of the day was false. Use evidence from the data collected to support this conclusion.

[4]

[TOTAL: 25 MARKS]

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Question 3

A group of students was conducting fieldwork in the main shopping area of the city of Nassau. They wanted to find out how the shopping area had changed and what residents who visited the shopping area thought about it. The students investigated the following hypotheses:

Hypothesis 1:

Shops and services in the area have changed between 1992 and 2022.

Hypothesis 2:

Residents are most concerned about the amount of derelict buildings in the area.

- (a) To begin, the students completed a land-use map of the shopping area. This map is shown in Figure 3.1 below.

- (i) Use the map key to label the following buildings on Figure 3.1:

- A bank at point Q;
- A restaurant at point R.

[2]

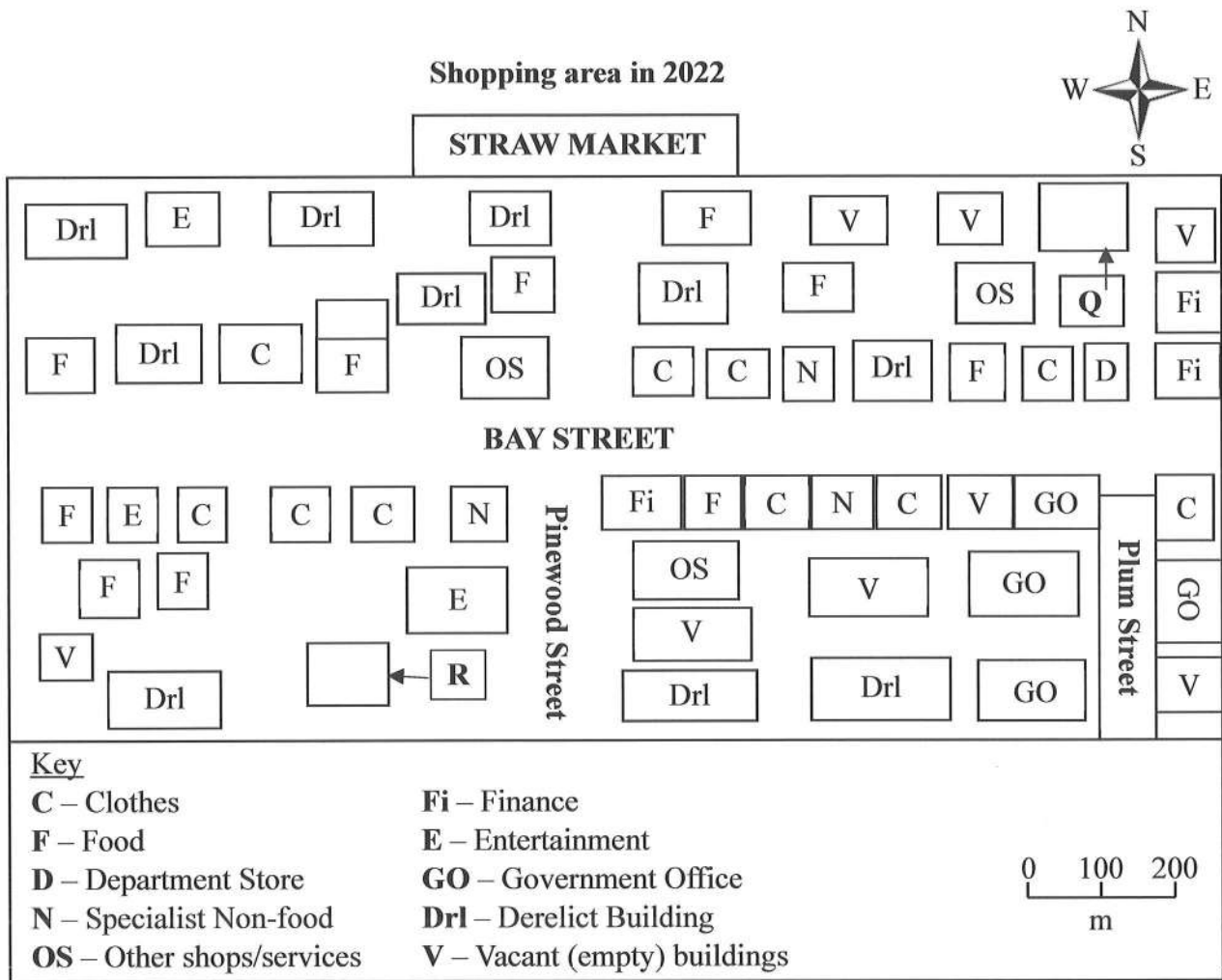


Figure 3.1

- (ii) Describe the distribution of the clothing stores shown in Figure 3.1.

1. _____

2. _____

_____ [2]

- (iii) What type of shop or service is located directly east of point Q?

_____ [1]

- (iv) What type of shop or service is located 400 m northwest of point R?

_____ [1]

- (b) To compare the different shops and services in 1992 and 2022, the students devise Table 3.1 below.

Number of shops and services found in the shopping district

Category	1992	2022
Shops		
Clothes	20	11
Department Store	4	1
Food (restaurants, cafes, bars, takeaways)	7	9
Specialist non-food (mobile or cell phones, jewellery, sports)	1	2
Other shops	5	3
Services		
Finance	5	3
Entertainment (night clubs)	7	3
Other services (travel agents)	4	1
Derelict Buildings	2	10
Vacant (empty buildings)	1	7
Total	56	Answer:

Table 3.1

- (i) Using the data provided, complete Table 3.1 to show the total amount of shops and services for 2022. [1]
- (ii) The students obtained the data for 1992 from a map which showed the area in that year.

What is the correct term for this type of data? Circle your answer below.

- (a) Fieldwork data
- (b) Primary data
- (c) Sampling data
- (d) Secondary data

[1]

- (iii) The students used Table 3.1 to draw the graph, Figure 3.2 below.

Complete the graph in Figure 3.2. below to show the changes in the number of food shops and entertainment. [2]

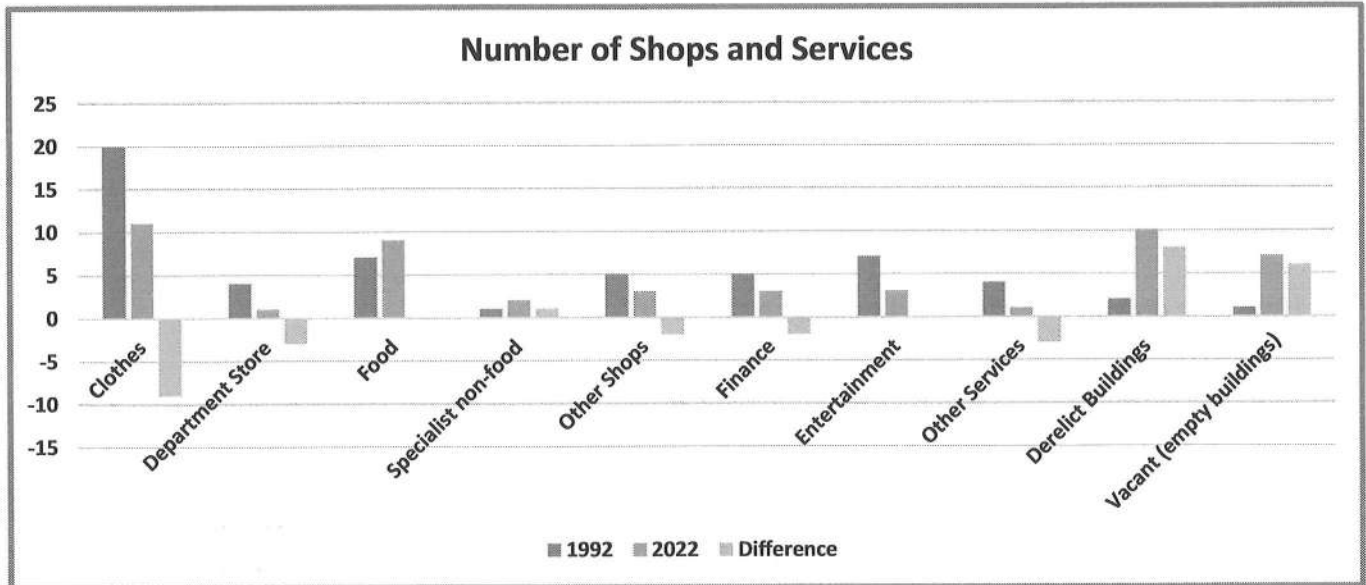


Figure 3.2

- (iv) What conclusion would the students make about;

Hypothesis 1: Shops and services in the area have changed between 1992 and 2022?

Support your response with evidence from Table 3.1 and Figure 3.2.

[4]

- (c) To investigate Hypothesis 2: Residents are most concerned about the amount of derelict buildings in the area; the students used a questionnaire with residents in the shopping area. Their questionnaire is shown in Figure 3.3.

Shopping Questionnaire	
Date: _____ Time: _____	
Good day. I am a student at John Madden High School. I would be grateful if you could answer a few questions to help me with my geography coursework.	
1. How long do you expect to be shopping in this area?	
_____ 0 to 15 minutes	_____ 16 to 30 minutes
_____ 31 to 59 minutes	
_____ 1 to two hours	_____ more than 2 hours
2. What is the reason for you shopping in the city centre? (You may give more than one answer)	
_____ Near to home	_____ Near to work
_____ Traffic – free area for shopping	
_____ Ample parking space	_____ Wide variety of shops
_____ Other reasons	
3. What are your main concerns about this shopping area?	

4. Gender: _____ Male _____ Female	
5. Age: _____ 16 – 30 _____ 31 – 45	
_____ 46 – 60	_____ Over 60
Thank you very much for your help and time.	

Figure 3.3

(i) What are **TWO** benefits of using a questionnaire?

1. _____

2. _____

_____ [2]

(ii) Suggest **TWO** problems which the students may have faced in completing their questionnaire survey.

1. _____

2. _____

_____ [2]

(iii) Table 3.2 below shows the results of question 3 in the questionnaire.

Concerns	Number of residents
Limited variety of types of stores	23
No night time shopping	17
Too many derelict buildings	50
Not enough parking	35
Total	125

Table 3.2

Rank the concerns according to the number of residents surveyed.

Major



Minor

[2]

- (iv) Suggest **TWO** answers that would be included in the 'other reason' category for question 2 in the questionnaire.

1. _____

2. _____

_____ [2]

- (v) What conclusions would the students have made about Hypothesis 2: Residents are most concerned about the amount of derelict buildings in the area?

_____ [3]

[TOTAL: 25 MARKS]

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