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5109/1

BGCSE

School Number	Candidate Number

GEOGRAPHY

PAPER 1 5109/1

Wednesday **29 MAY 2019** 9:00 A.M.–10:15 A.M.

Additional materials:
Ordnance Survey Map

MINISTRY OF EDUCATION NATIONAL EXAMINATIONS

BAHAMAS GENERAL CERTIFICATE OF SECONDARY EDUCATION

INSTRUCTIONS AND INFORMATION TO CANDIDATES

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

Write your school number, candidate number, surname 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 12 printed pages and 4 blank pages.

Circle the letter which represents the correct response.

1. What is the inner layer of the earth called?
 - A. Core
 - B. Lithosphere
 - C. Mantle
 - D. Stratosphere

2. On which tectonic plate is The Bahamas located?
 - A. Caribbean
 - B. Eurasian
 - C. Nazca
 - D. North American

3. Which of the following earthquake waves can travel through both solids and liquids?
 - A. Primary
 - B. Secondary
 - C. Both primary and secondary
 - D. None of the above

4. Which of the following is an example of a shield volcano?
 - A. Mauna Loa
 - B. Mount St. Helens
 - C. Paricutin
 - D. Soufriere, Montserrat

5. A telegraph message was sent from London (0°) at 4:00 pm to Nassau (75° West). What time was the message received in Nassau?
 - A. 9:00 am
 - B. 11:00 am
 - C. 1:00 pm
 - D. 9:00 pm



6. Which of the following affects the changing of seasons?

- A. Rotation of the earth on its axis
- B. Revolution of the earth around the sun
- C. Revolution of the moon around the earth
- D. The division of the earth into hemispheres

7. Figure 1 shows the temperature recording for Grand Bahama Island during a 24 hour period. What is the daily range of temperature in degrees Celsius?

Highest Daily Temperature	25 °C (77 °F)
Lowest Daily Temperature	14 °C (57 °F)

Figure 1

- A. 11 °C
- B. 20 °C
- C. 28 °C
- D. 39 °C

8. Figure 2 shows a pressure system. Identify the pressure system shown.

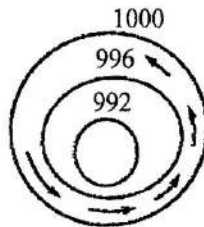


Figure 2

- A. Anticyclone
- B. Cyclone
- C. Easterly wave
- D. Warm front



9. The dark shaded area of Figure 3 shows the location of one type of natural vegetation. What does this type of vegetation consist of?



Figure 3

- A. A mixture of grasses and deciduous trees
 - B. Cone shaped evergreen trees
 - C. Mosses, lichens and dwarf shrubs
 - D. Tall evergreen trees, lianas and epiphytes
10. Why are isobars drawn on maps?
- A. To join places with the same annual rainfall
 - B. To join places with the same atmospheric pressure
 - C. To join places with the same mean annual temperature
 - D. To join places with the same relative humidity



11. What amount of cloud cover is shown in Figure 4 below?

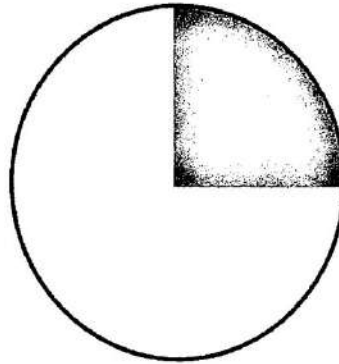


Figure 4

- A. 1 okta
B. 2 oktas
C. 3 oktas
D. 4 oktas
12. Which islands in The Bahamas does the Tropic of Cancer pass through?
- A. Acklins and Crooked Island
B. Andros and Eleuthera
C. Cat Island and San Salvador
D. Exuma and Long Island
13. Which of the following is a process of river erosion?
- A. Attrition
B. Saltation
C. Suspension
D. Traction
14. Which group of features is produced in the middle course of a river?
- A. Cliffs, interlocking spurs, rapids
B. Deltas, levees, flood plain
C. Meanders, river cliffs, slip off slopes
D. Oxbow lakes, meanders, plunge pools



15. Which definition describes a bay head beach?
- A beach or spit that extends outwards to join an offshore island
 - A broad and curved coastal inlet with a headland on one side
 - A curved beach developed at the back of a bay between two headlands
 - A long projector of sand, shingle or pebbles connecting to land
16. When is the closed season for the Nassau Grouper in The Bahamas?
- December through February
 - June through August
 - March through May
 - September through November
17. Figure 5 shows the Demographic Transition Model. At what stage of this model is The Bahamas?

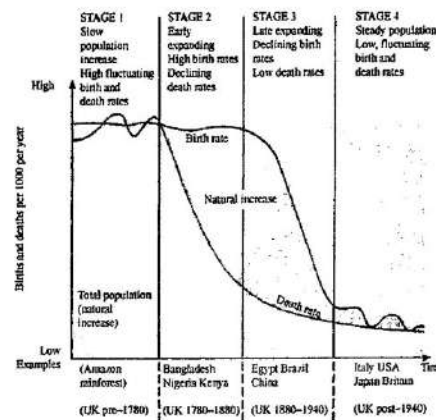


Figure 5

- 1
 - 2
 - 3
 - 4
18. Which of the following best explains the rapid growth in size of the most urban centres in the Caribbean?
- An aging population
 - An increase in the number of immigrants
 - High birth rates and low infant mortality
 - The migration of persons from rural areas



19. When is a country considered overpopulated?
- A. Total population of 100 or more
 - B. The death rate declines rapidly
 - C. The country's resources cannot support the population
 - D. There are a lot of emigrants
20. Which of the following is a non-renewable resource?
- A. Biomes
 - B. Coal
 - C. Hydro-electric energy
 - D. Wind power
21. A factory which produces handmade batik is an example of which type of industry?
- A. Primary
 - B. Quaternary
 - C. Secondary
 - D. Tertiary
22. Which of the following is the best description of market gardening?
- A. Intensive cultivation of vegetables, flowers or fruits
 - B. Planting of cotton on a plantation for export
 - C. Production of fodder crops
 - D. Production of food for consumption by the farmers
23. Which of the following Caribbean countries has the largest petrochemical industry?
- A. Cuba
 - B. The Bahamas
 - C. Haiti
 - D. Trinidad
24. Which form of transport is the least expensive for carrying heavy loads over a long distance?
- A. Air
 - B. Rail
 - C. Road
 - D. Sea



25. Why are wetlands being destroyed in The Bahamas?

- A. Diseases
- B. Due to economic expansion
- C. Flooding
- D. The lack of rain



Use the Ordnance survey map of New Providence (1: 25,000) to answer questions 26–30.

26. What is the direction of Fort Montagu (6774) from Fort Charlotte (6275)?
- A. ESE
 - B. NNE
 - C. WNW
 - D. SSE
27. What is the four-figure grid reference of the Trigonometrical Station at Long Cay in the north of the map?
- A. 6875
 - B. 6076
 - C. 6176
 - D. 5977
28. What method is used to show the highest point in grid square 6071.
- A. Colour shading
 - B. Contour lines
 - C. Spot height
 - D. Trigonometrical station
29. What service is provided in grid square 6771?
- A. Administrative
 - B. Communication
 - C. Education
 - D. Industrial
30. What is the settlement pattern of Down Town Nassau (6475)?
- A. Compact
 - B. Cross-type
 - C. Dispersed
 - D. Linear



31. Figure 7 shows Guyana's forest vegetation.



Figure 7

- (a) Describe the vegetation in the photograph.

_____ [2]

- (b) Explain **TWO** ways in which forests have been negatively impacted upon by humans.

1. _____

2. _____
_____ [4]

- (c) What is meant by the term 'silviculture'?

_____ [2]



- (d) (i) Name **TWO** Bahamian islands with large areas of pine forest.

1. _____ 2. _____ [2]

- (ii) Explain how Bahamian pine trees have adapted to climatic conditions?

_____ [2]

32. The Bahamas is the most popular tourist destination in our region. Its tourist industry is over a hundred years old.

- (a) Why is The Bahamas a popular tourist destination?

_____ [2]

- (b) What are **TWO** advantages of tourism for The Bahamas?

1. _____
2. _____ [2]

- (c) What are **TWO** disadvantages of tourism for The Bahamas?

1. _____
2. _____ [2]



33. Photo A shows garbage overflowing from a dumpster on New Providence.



Photo A

- (a) (i) What is pollution?
- _____ [1]
- (ii) Which government ministry is responsible for the collection and disposal of waste in The Bahamas?
- _____ [1]
- (b) (i) Explain **TWO** harmful effects of land pollution.
1. _____
2. _____
- _____ [4]
- (ii) Suggest **THREE** ways to reduce the amount of land pollution.
1. _____
2. _____
3. _____ [6]



[illegible]

5109/2

BGCSE

School Number	Candidate Number
Surname and Initials	

GEOGRAPHY

PAPER 2 5109/2

Tuesday **4 JUNE 2019** 9:00 A.M.–11:30 A.M.

Additional materials:
Ordnance Survey Map

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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 21 printed pages and 3 blank pages.

Study the Ordnance Survey Map extract 1:50,000 Orange Walk, Belize.

1. (a) (i) What is the compass direction of the school in Chan Pine Ridge from the school at San Jose Palmer?

_____ [1]

- (ii) Measure the straight line distance in metres, from the school at Chan Pine Ridge to the school in San Jose Palmer?

_____ [2]

- (b) (i) Name **TWO** types of scales shown on the map extract.

1. _____

2. _____ [2]

- (ii) Identify **TWO** ways height is shown on the map.

1. _____

2. _____ [2]

- (iii) Compare the relief in the East and West of the map.

_____ [2]

- (c) Explain **TWO** advantages of the settlement pattern at Orange Walk.

1. _____

2. _____

_____ [4]



(d) Explain **THREE** reasons why the location of Trial Farm (3401) is ideal.

1. _____

 2. _____

 3. _____

- [6]

(e) Explain **THREE** ways in which the government of Belize can benefit economically from New River.

1. _____

 2. _____

 3. _____

- [6]



2. Figure 1 shows a teacher and students experiencing an earthquake.

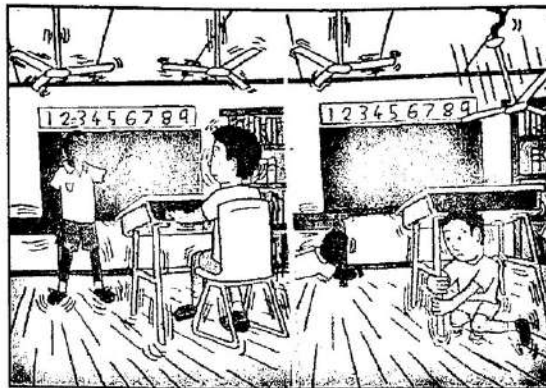


Figure 1

- (a) (i) Define the term 'earthquake'.
- _____
- _____ [1]
- (ii) What is the difference between the focus of an earthquake and its epicentre?
- _____
- _____
- _____ [2]
- (iii) Explain **TWO** reasons why tsunamis are dangerous.
- _____
- _____
- _____ [4]



(d) Explain **THREE** ways in which earthquake damages may be reduced.

1. _____

 2. _____

 3. _____

- [6]

3. (a) Figure 2 below shows a typical Bahamian water lens.

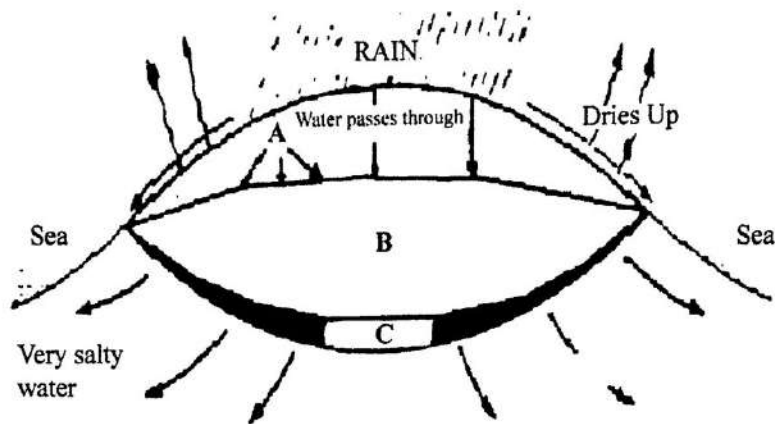


Figure 2

(i) Identify the parts labelled A, B and C

- A _____
B _____
C _____

[3]



- (ii) Describe **TWO** characteristics of the rocks that form the islands of The Bahamas.

[4]

Study the photo in Figure 3 which is a photograph of Salt Cay, near New Providence Island.

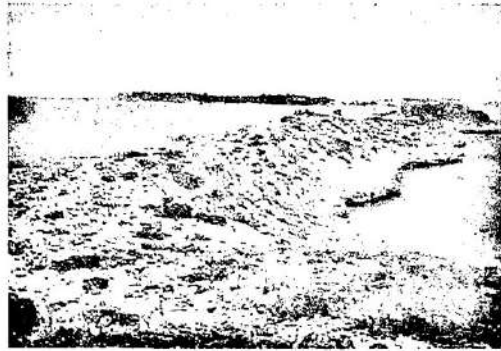


Figure 3

- (b) Explain the formation of cays as shown in the photograph.

[4]



- (c) Bahamian soils are classified as organic, sedimentary and residual. Complete the table to compare organic and residual soils in The Bahamas. [6]

Organic	Residual
Example; Black in colour	Reddish or brown in colour
1.	1.
2.	2.
3.	3.

- (d) Explain **TWO** problems Bahamian farmers experience with Bahamian soils.

1. _____

2. _____

_____ [4]

- (e) Explain **TWO** economic advantages of the rocks that make up The Bahamian islands.

_____ [4]



4. (a) Figure 4 shows features of sea erosion.

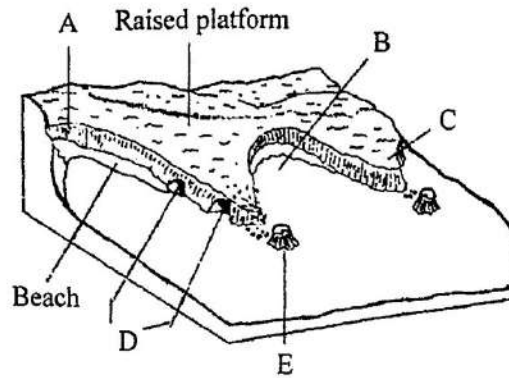


Figure 4

- (i) In the table below, name each feature labelled A–E. [5]

Feature	Name
A	
B	
C	
D	
E	

- (ii) Describe how any **TWO** of the features labelled A–E were formed.

[4]

- (iii) List **TWO** physical factors that affect the rate of sea erosion.

[2]



- (b) (i) Explain **ONE** way in which humans contribute to the erosion of coastlines in the Caribbean.

[2]

- (ii) Why is it necessary for The Bahamas to be protected against marine erosion?

[2]

- (iii) Explain **TWO** ways in which the coastal environment can be protected from destruction by waves.

[4]

- (c) Waves can be classified as constructive or destructive.

- (i) What is the difference between a constructive wave and a destructive wave?

[2]



- (ii) Identify and describe the formation of **ONE** feature which is the result of constructive waves.

Feature _____

_____ [4]

5. The photograph below show sources of industrial pollution.

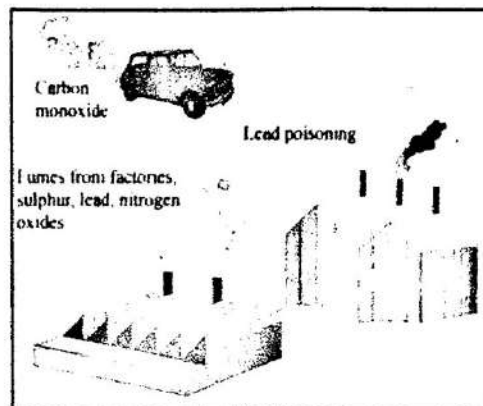


Figure 5

- (a) (i) Name **TWO** greenhouses gases.

1. _____

2. _____

[2]



- (ii) State **THREE** different ways in which human activities have contributed to global warming.

1. _____

2. _____

3. _____
_____ [3]

- (b) Define the term 'acid rain'.

_____ [1]

- (c) (i) Explain **THREE** harmful effects of land pollution.

1. _____

2. _____

3. _____
_____ [6]

- (ii) State **TWO** measures that can be implemented to control air pollution.

1. _____

2. _____
_____ [4]



"Pollution in coastal areas can be direct, seaborne or land borne" Neil Sealy, Caribbean World

(d) (i) What is **ONE** source of direct pollution?

_____ [1]

(ii) Explain **THREE** ways in which cruise ships and commercial vessels contribute to marine pollution.

1. _____

2. _____

3. _____

_____ [6]

(e) Explain **ONE** way in which resources are important to economic development.

_____ [2]



6. (a) Figure 6 is a diagram of an oil field.

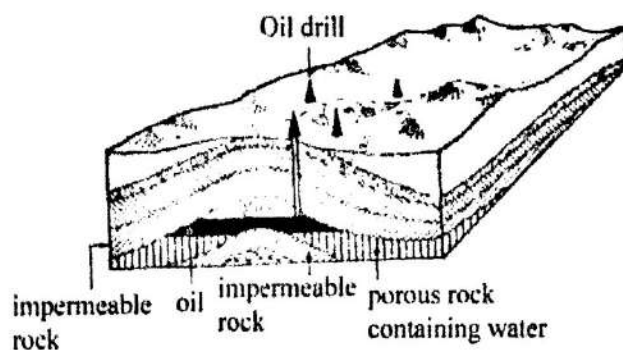


Figure 6

- (i) Describe the formation of petroleum.

[3]

- (ii) What is the name of the group formed by most of the major producers of petroleum?

[1]

- (iii) What is the main purpose of such an organisation?

[1]

- (b) What is meant by the term petrochemical industry?

[2]



- (c) (i) Give **TWO** reasons why oil refineries in the Caribbean are located near the coasts.

1. _____

2. _____

_____ [4]

- (ii) Explain **THREE** reasons why the production of oil is difficult and expensive.

1. _____

2. _____

3. _____

_____ [6]

- (d) What are **TWO** advantages and **TWO** disadvantages of a petroleum industry to a country.

Advantages:

1. _____

2. _____

Disadvantages:

1. _____

2. _____

_____ [8]



7. Figure 7 is a cartoon, read it and then answer the questions which follow.



Figure 7

- (a) (i) Define the term 'farming'.

[1]
- (ii) What is meant by the term 'cash crop'?

[2]
- (iii) Discuss why local farmers are concerned about income returns.

[4]



- (b) 'Despite the improvements in farming methods and increase in yields, many farmers still struggle to make a living and many have gone out of business.'

– New Connections

- (i) Explain how the government can assist farmers to stay in business.

[4]

- (ii) What is the difference between arable farming and pastoral farming?

[2]

- (c) Describe **THREE** characteristics of plantation farming in the Caribbean.

1.

2.

3.

[6]



- (d) Explain how the following practices benefit farmers in the Caribbean.

Crop Rotation

Mixed Farming

Inter-Cropping

[6]



8. (a) Define the following terms:

(i) Invisible trade:

(ii) Balance of trade:

(iii) Quotas:

[3]

Figure 8 shows a cartoon



Figure 8



(b) Explain **THREE** advantages of being a member of a trading association.

1. _____

 2. _____

 3. _____

- [6]

(c) Give the names of **TWO** world trading blocs.

1. _____
 2. _____
- [2]

(d) Explain **THREE** problems faced by developing countries in international trade.

1. _____

 2. _____

- [6]



(e) Explain **FOUR** ways a trade deficit might negatively impact The Bahamas.

1. _____

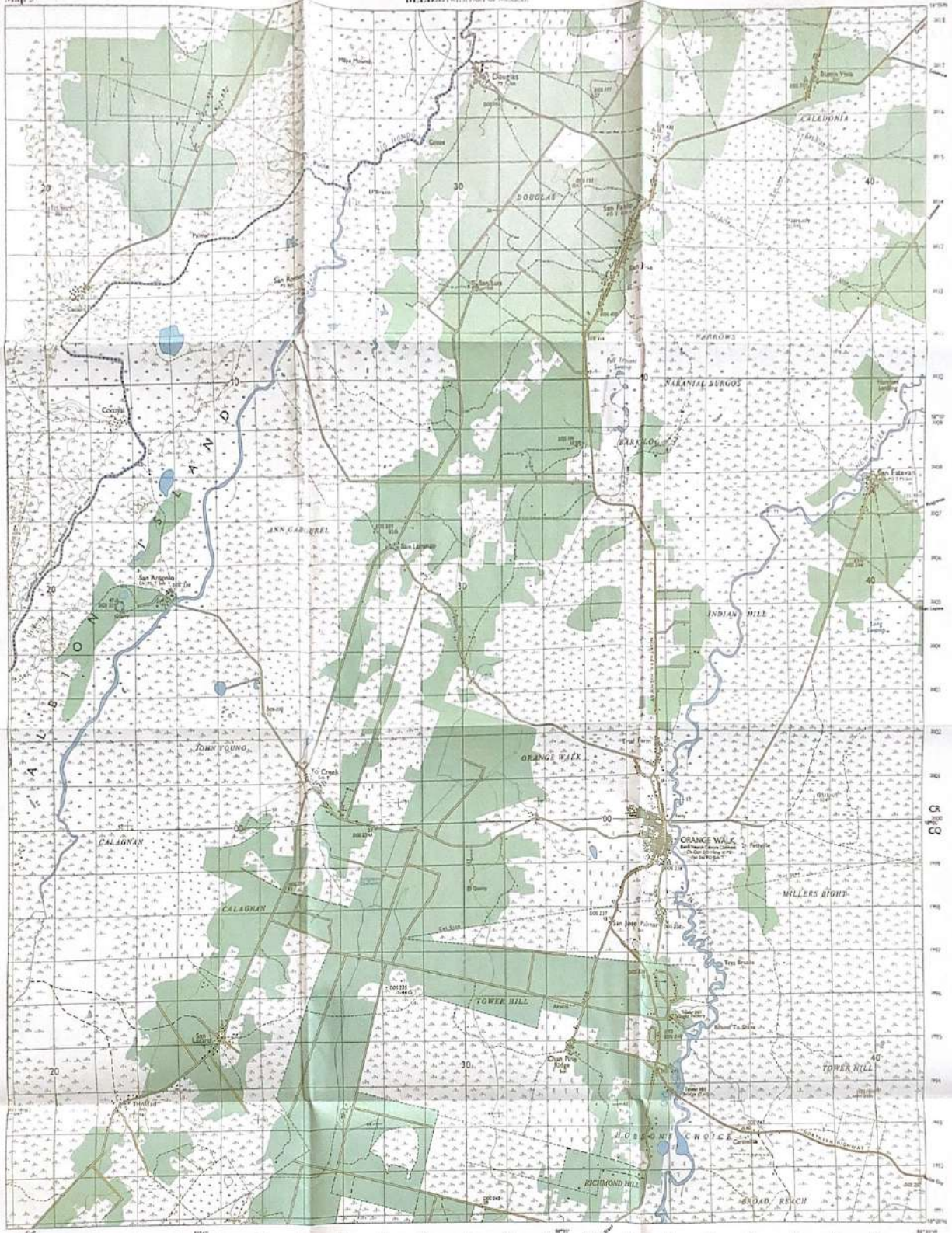
2. _____

3. _____

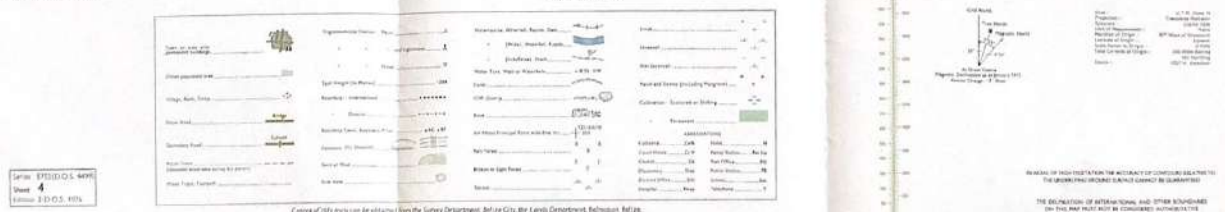
4. _____

_____ [8]





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 METRE 1:50,000
 SCALE 1:50,000
 HEIGHTS IN METRES



5109/5

BGCSE

School Number	Candidate Number
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GEOGRAPHY

PAPER 5 5109/5

Wednesday **29 MAY 2019** 10:30 A.M.–12 noon

Additional materials:
None

MINISTRY OF EDUCATION NATIONAL EXAMINATIONS
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BAHAMAS GENERAL CERTIFICATE OF SECONDARY EDUCATION

INSTRUCTIONS AND INFORMATION TO CANDIDATES

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Answer **ALL** questions. This paper accounts for 30% of the total marks. There are 3 questions in this booklet. The mark for each question is given in brackets [].

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.



Question 1

A class conducted a study on the nature of visitor arrivals at a shopping plaza. Students conducted their investigation with the following hypotheses;

1. A larger number of visitors come directly from home than work.
2. More females visit the shopping centre than males.
3. There are more visitors at the shopping centre to conduct banking instead of shopping at the food store.

(a) (i) Suggest **THREE** objectives of this study.

1. _____

 2. _____

 3. _____

- [3]

(ii) Give **ONE** way students may collect data for hypothesis number one.

1. _____
 2. _____
- [1]

(b) State **ONE** problem in conducting a study of this nature.

_____ [1]



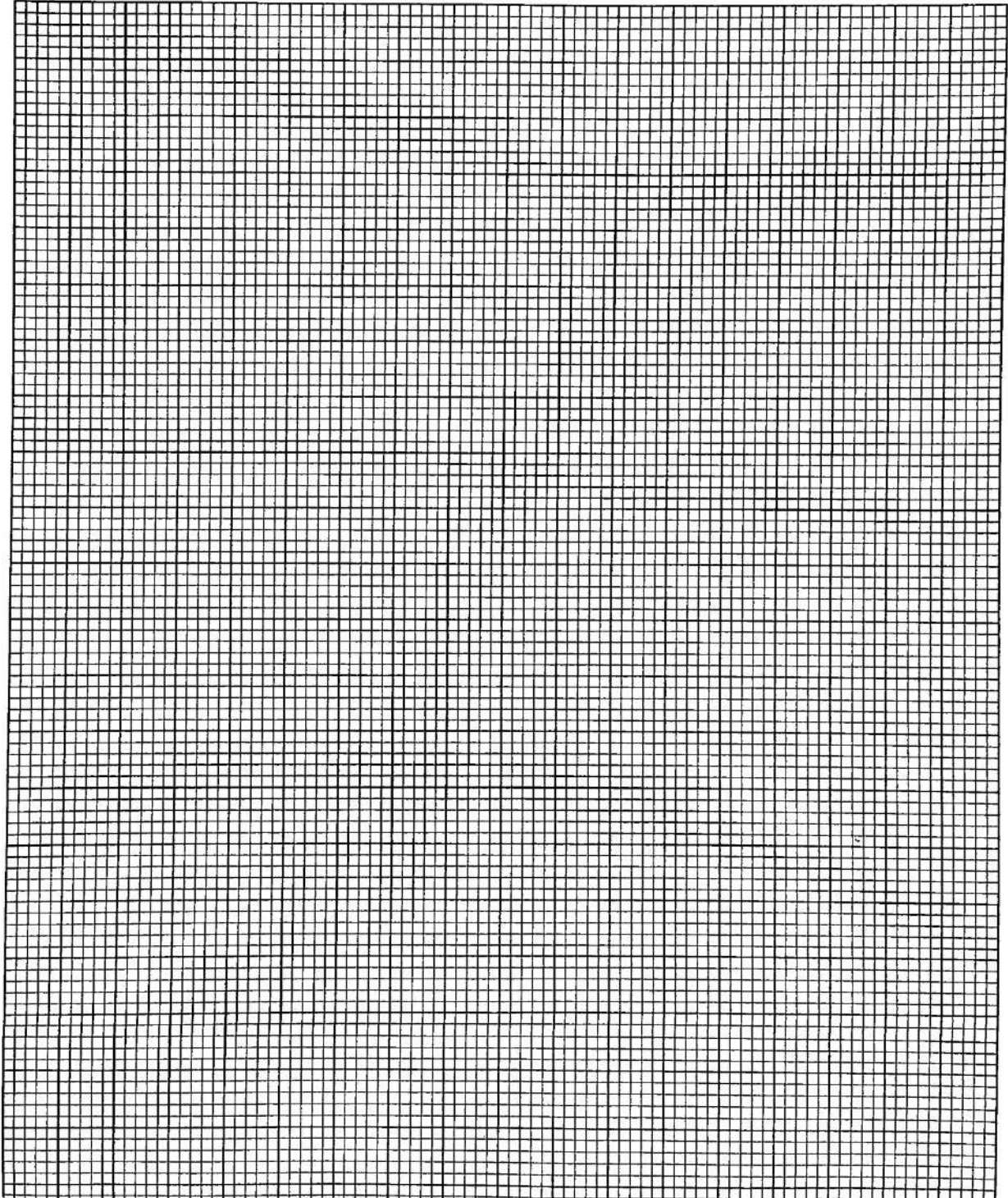
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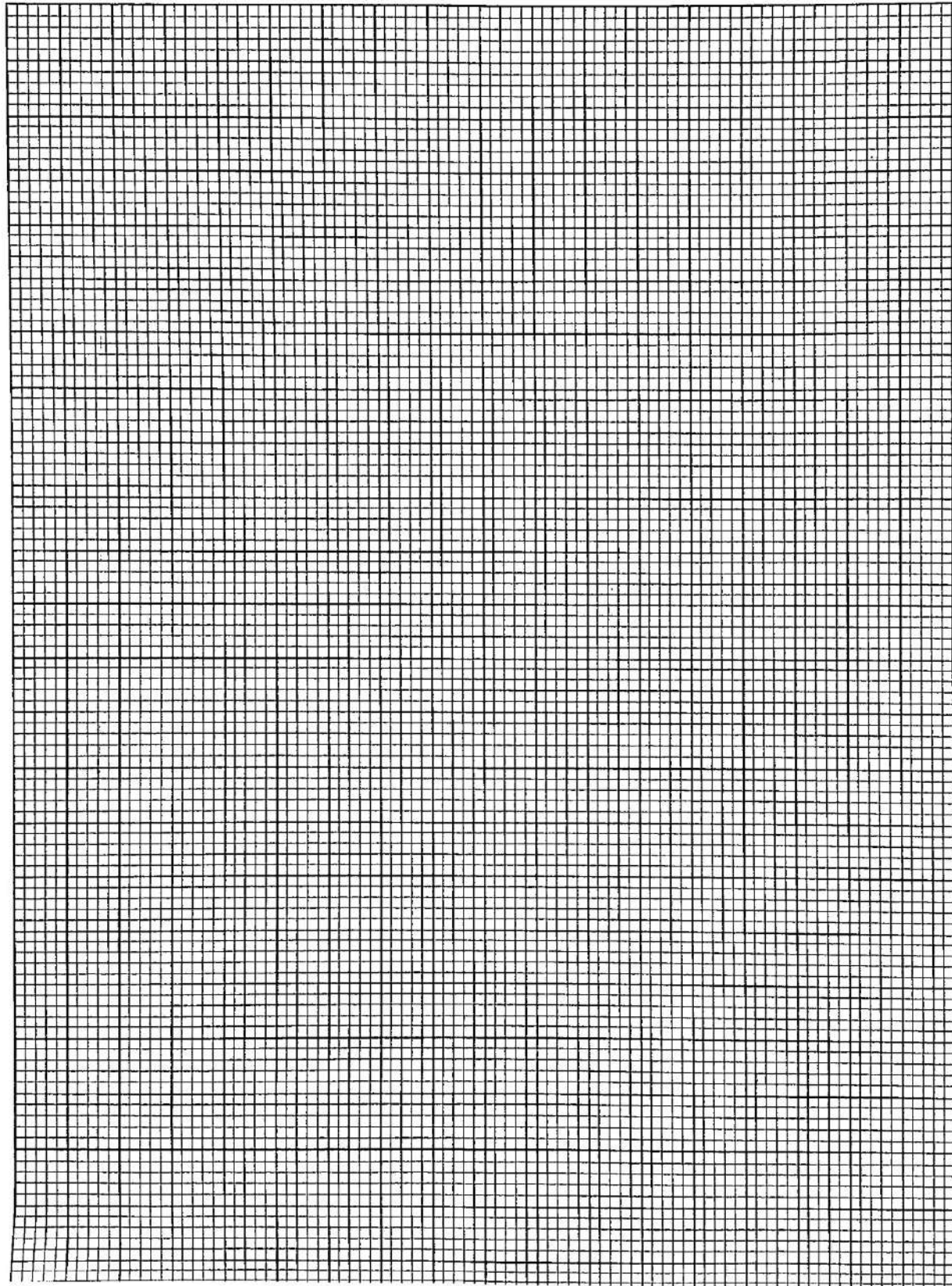
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Signature:	Date:	Qu. No.	



- (c) Table 1 shows the results of data collected for day one of the study between the hours of 9:00 a.m. to 11:00 a.m.

LOCATION	Working Male	Working Female	Non-working Male	Non-working Female	Totals
Station #1 Newport Cleaners	27	26	31	21	105
Station #2 Value Supermarket	36	43	89	121	289
Station #3 Albury's Shoes	10	7	13	15	45
Station #4 Grand Chicken	20	17	13	34	84
Station #5 Central Burger	13	19	64	64	160
Station #6 Rockport Bank	43	32	98	109	282
					965

- (i) What is the minimum number of persons needed to conduct this study and why?

[2]

- (ii) What is the dominant gender at the shopping plaza?

[1]

- (iii) Explain one conclusion that can be drawn about the origin of visitors who patronise the shopping centre. You should use data in your answer.

[3]



- (iv) Hypothesis 3 was found to be false. Suggest three reasons why there were less people visiting the bank than expected.

[6]

- (d) Explain the importance of conducting this study for multiple days and at different times throughout the day?

[4]

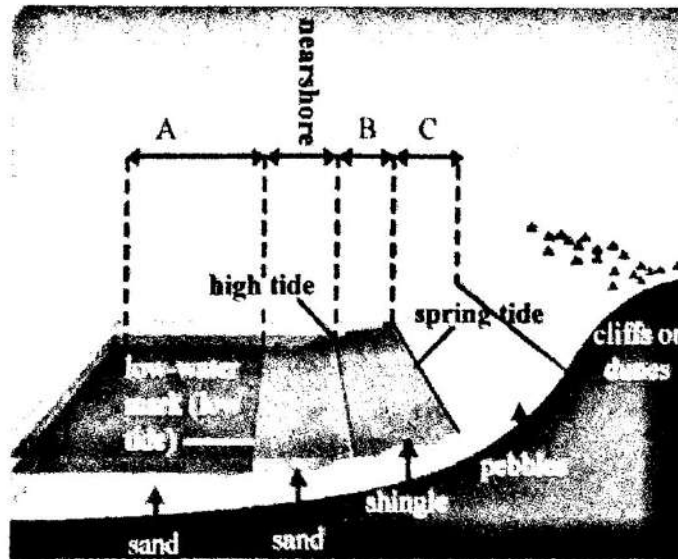
- (e) Name **TWO** groups of persons who may benefit from this study and explain why.

[4]



Question 2

A comparative study of natural and manmade debris and human interference at **TWO** beaches on any given island in The Bahamas.



A Sketch Map of Beach A

- (a) (i) Identify the following parts on the sketch map.

A _____ B _____ C _____ [3]

- (ii) Which area would be best suited for the building of a golf course?

_____ [1]

- (iii) Identify **TWO** objectives that can be used to conduct this study.

1. _____

2. _____

_____ [2]



(b) State **TWO** hypotheses than can be tested in this study.

1. _____

2. _____

_____ [4]

(c) Explain the method you would use to collect the debris on both sites.

_____ [2]

(d) Explain the methods used to collect data about the type of waves.

_____ [3]

(e) Explain how one would determine the direction of long shore drift on the beach at site A.

_____ [2]



Debris collected on both study sites are as follows:

Site A

Plastic	Metal	Glass	Rubber	Styrofoam	Cloth	Wood	Other
10	3	2	6	4	2	3	1

Site B

Plastic	Metal	Glass	Rubber	Styrofoam	Cloth	Wood	Other
21	7	17	9	11	12	18	3

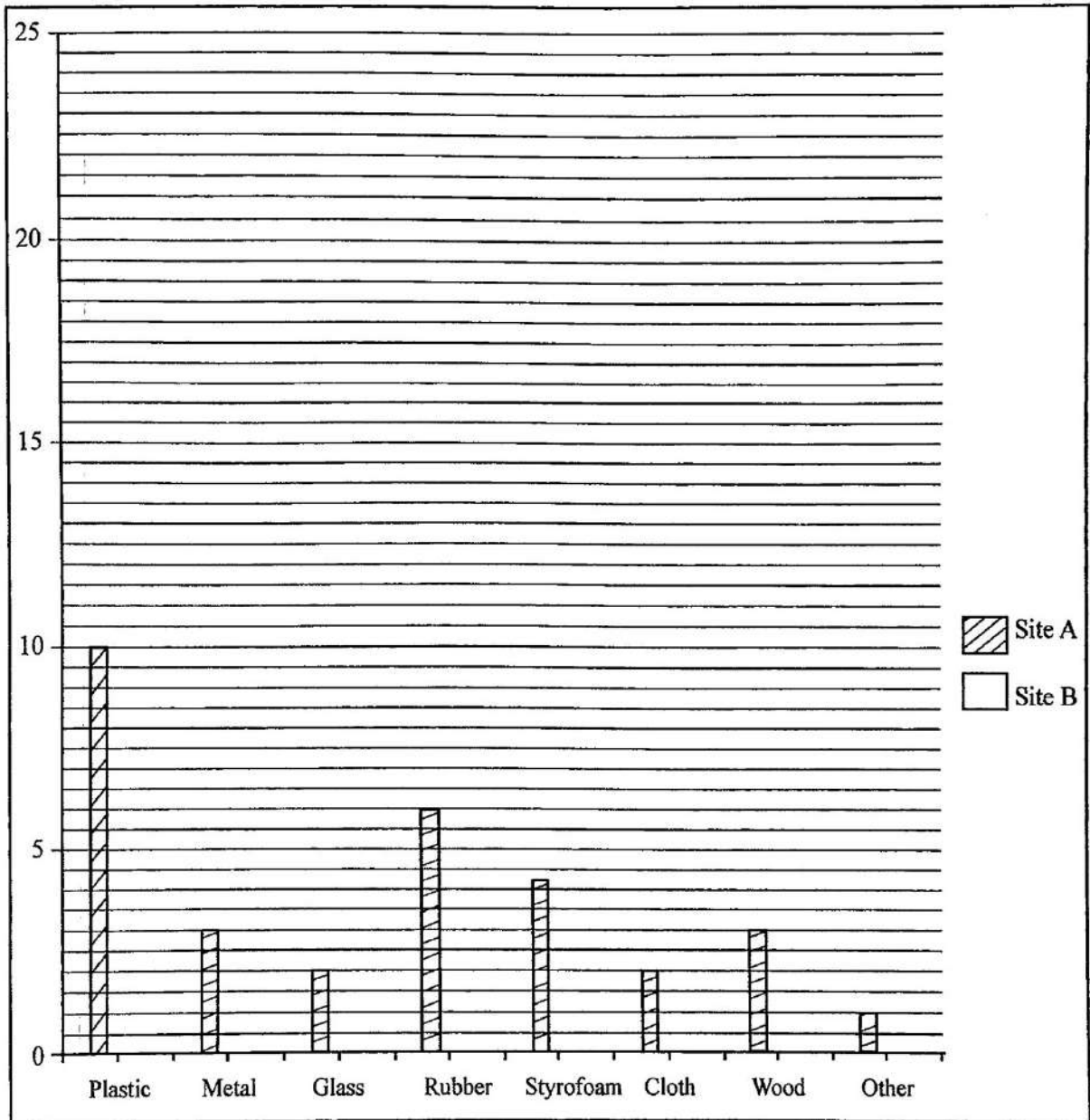
- (f) (i) Complete the table to show the total amount of debris collected on both Site A and B. [2]

Debris	Total
Plastic	
Metal	
Glass	
Rubber	
Styrofoam	
Cloth	
Wood	
Other	



- (ii) An incomplete bar graph is provided below. Complete the bar graph by filling in missing data for Site B. [4]

Title:



- (g) Suggest **TWO** conclusions that can be made about Site A and Site B based on the debris collected.

1. _____

2. _____

_____ [2]



Question 3

A Land use survey was conducted by a government department of a particular street on a family island in The Bahamas. The information was recorded on the figure below.

CS	SS	FS	R	VS	PH	O	LQ	NH	VS	V	FS	
Main Street												
B	FS	R	NH	CS	FS	LQ	VS	FS	LQ	CS	O	V

Key:

CS – Clothing Store	B – Bank
FS – Food Store	PH – Pharmacy
SS – Shoe Store	VS – Variety Store
R – Restaurant	NH – Gaming House
LQ – Liquor Store	V – Vacant Lot or Building
O – Other	

- (a) Create **ONE** suitable hypothesis for this study.

_____ [1]

- (b) State **TWO** pieces of equipment needed for the survey.

_____ [2]

- (c) Explain the method used to conduct this survey.

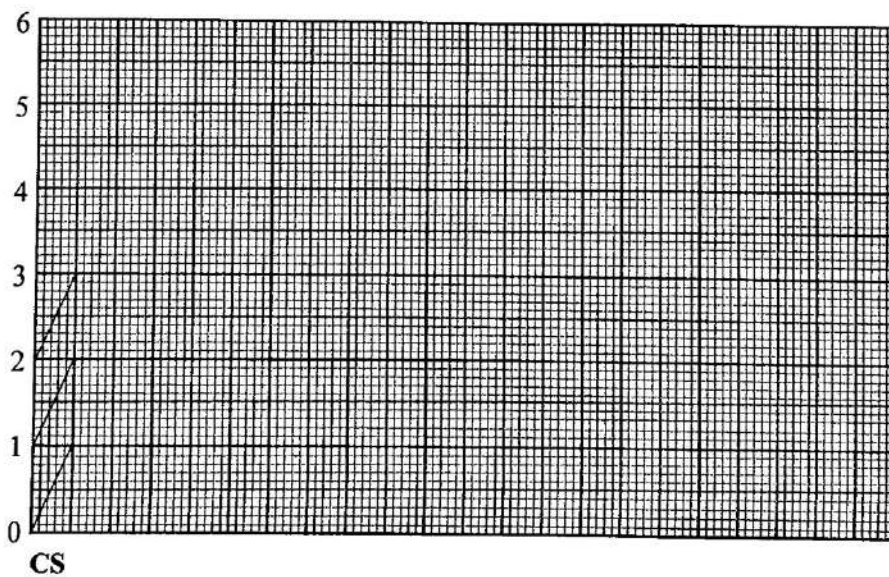
_____ [2]

- (d) (i) Complete a table to show the total of each type of land use on Main Street. [3]

Table showing land use on Main Street.

Land Use	Total
Clothing Store	
Food Store	
Shoe Store	
Restaurant	
Liquor Store	
Bank	
Pharmacy	
Variety Store	
Gaming House	
Vacant Lot or Building	
Other	

- (ii) Complete the divided bar graph to represent the total of each type of land use. [6]



(iii) Suggest **TWO** other types of graphs that can be used to display this information.

1. _____

2. _____ [2]

(e) What is the most common service offered? Explain why it is the most common service.

_____ [4]

(f) A new shop keeper is interested in opening a store in one of the vacant buildings.
What other information would they be interested in finding out?

_____ [5]

