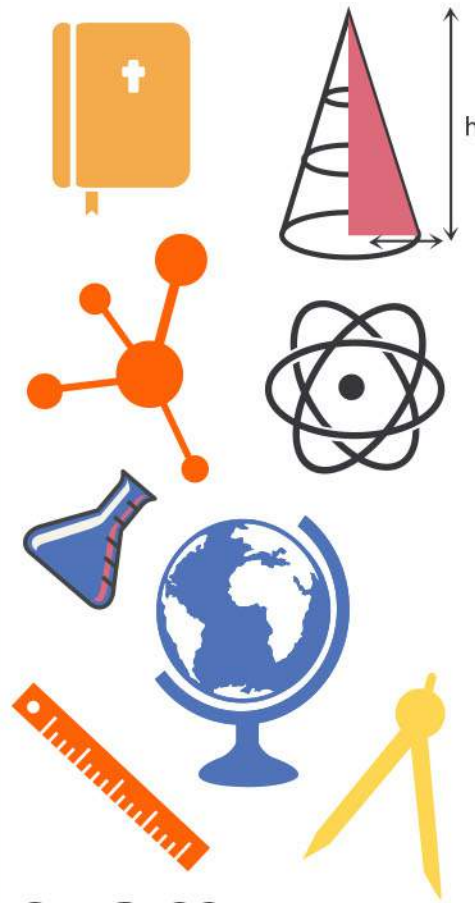
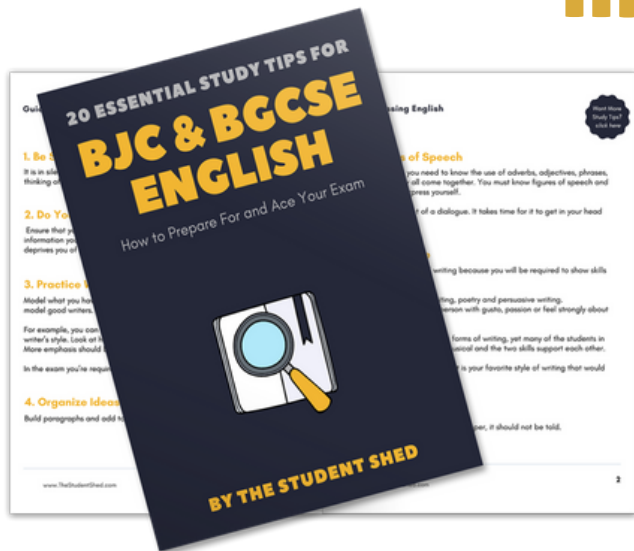


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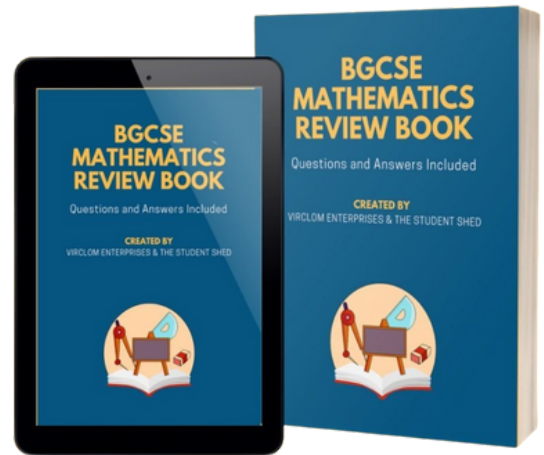


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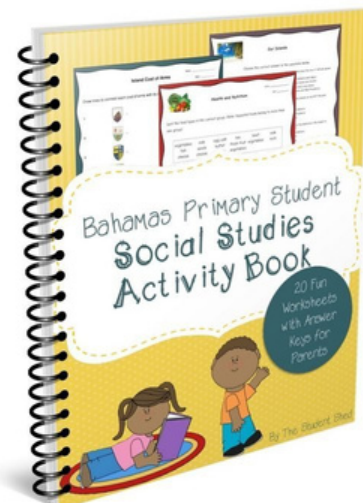
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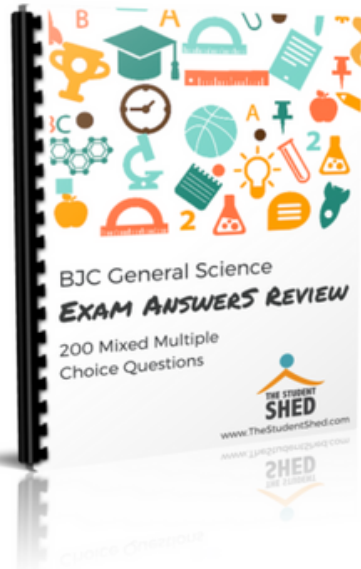
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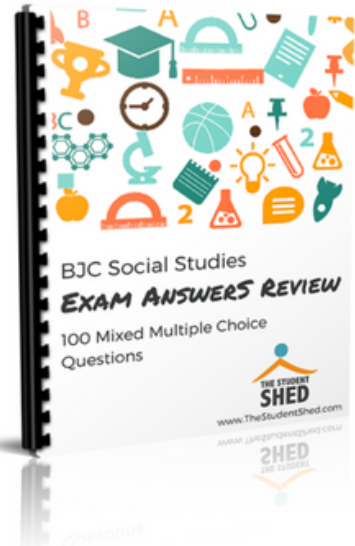
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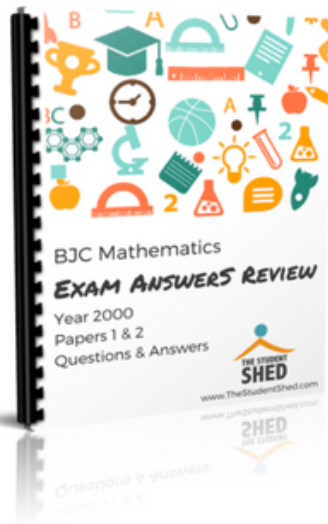
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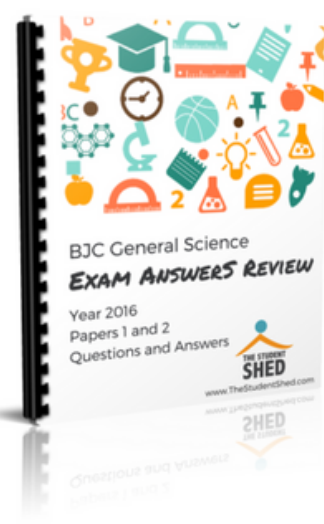
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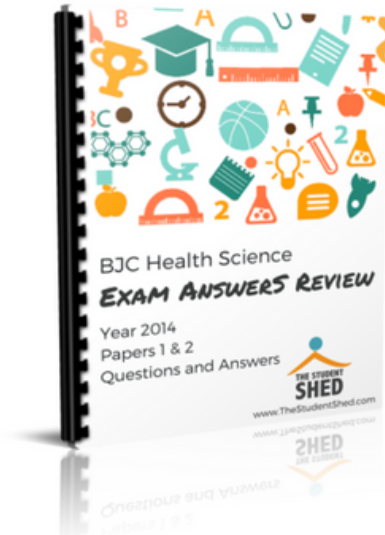
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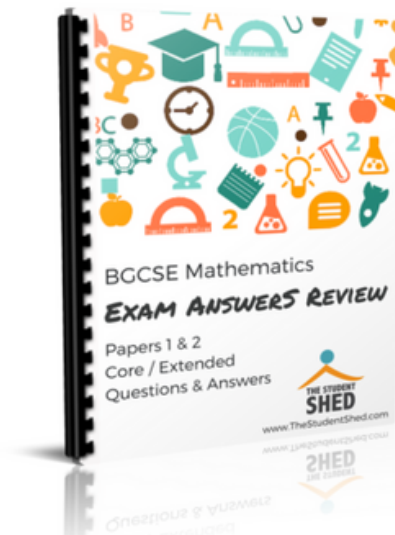
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School Number	Candidate Number
Surname and Initials	

GEOGRAPHY

PAPER 1 5109/1

Monday **28 MAY 2018** 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 33.3% of the total marks. There are **36** 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 36.

- (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 14 printed pages and 2 blank pages.

Circle the letter which represents the correct response.

1. Figure 1 shows one type of fault. Which type of fault is it?

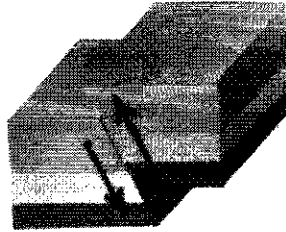


Figure 1

- A. Nappe
 - B. Normal fault
 - C. Reverse fault
 - D. Strike – slip fault
2. Where is the San Andreas Fault located?
- A. Alabama
 - B. Arizona
 - C. California
 - D. Delaware
3. Which of the following factors influence the rate of chemical weathering?
- A. The stratified layers of the rock
 - B. The diurnal temperature changes
 - C. The intensity of rainfall and degree of temperature
 - D. The type of rock



4. Figure 2 shows scree on a hillside. What is scree?



Figure 2

- A. A mudslide
 - B. The accumulation of weathered material at the foot of a slope
 - C. The movement of ice or snow down a slope
 - D. The sliding of a portion of land down a convex slope
5. What is a plateau surface eroded by water called?
- A. Dissected plateau
 - B. Volcanic plateau
 - C. A tectonic plateau
 - D. An intermontane plateau
6. Which of the following does not occur as a result of the Earth's rotation?
- A. Day and night
 - B. The deflection of winds and ocean currents
 - C. The rising and falling of tides
 - D. The seasons

7. Figure 3 shows a feature in the upper course of the river. Which feature is shown in Figure 3?

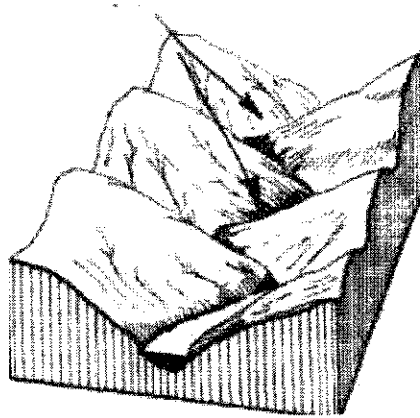
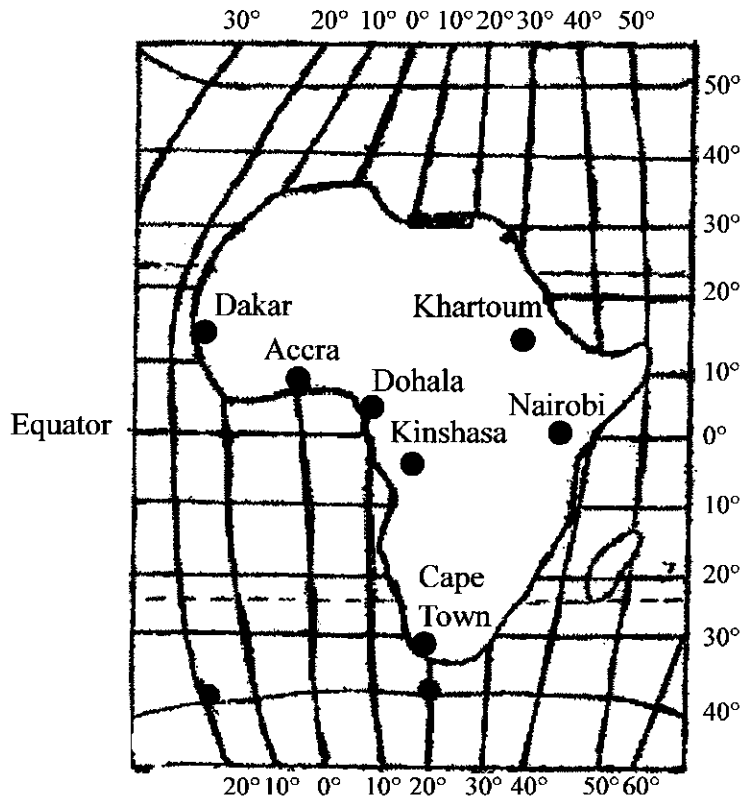


Figure 3

- A. Interlocking spur
 - B. Rapids
 - C. U Shaped Valley
 - D. Waterfall
8. How do stacks form?
- A. When an arch collapses due to erosion, leaving a pillar of rock standing away from the coast
 - B. When destructive waves hit against the coast causing undercutting
 - C. When limestone dissolves from a cliff face
 - D. When two caves develop on either side of a headland



9. Figure 4 is a map of Africa. What is the location of Nairobi?



- A. 3°N, 35°W
B. 3°S, 35°E
C. 35°N, 30°W
D. 35°S, 3°E
10. If the time of 45°W is 9:00 am, what time is it at 75°E?
- A. 11 am
B. 12 pm
C. 1 pm
D. 2 pm
11. Which earth movement is Nuee Ardente associated with?
- A. Earthquakes
B. Faulting
C. Folding
D. Volcanoes

12. What does the Richter Scale measure?

- A. Earthquakes
- B. Faulting
- C. Hurricanes
- D. Volcanoes

13. Figure 5 shows a weather instrument. Identify the instrument.

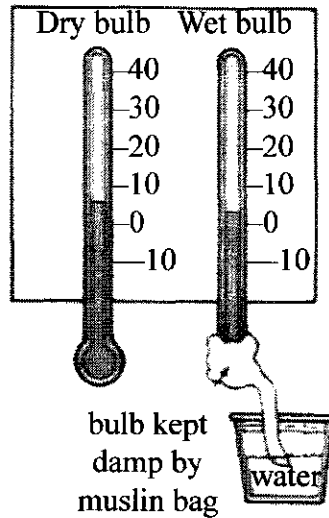






Figure 5

- A. Anemometer
- B. Barometer
- C. Hygrometer
- D. Rain gauge

14. What symbol on a weather map represents cirrus clouds?

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



15. Where are hot deserts generally located?
- A. Between latitudes 0° and 5° north and south of the Equator
 - B. Between latitudes 0° and 10° south of the Equator
 - C. In the continental interior of Equatorial areas
 - D. On the western sides of continents, between 15° and 30° north and south of the Equator
16. Which group of countries make up the largest populations in the world today?
- A. Bangladesh, China and Pakistan
 - B. India, Nigeria and Russia
 - C. Indonesia, Pakistan and Brazil
 - D. U.S.A., China and India
17. In a settlement hierarchy, which of the settlement types below offer the least amount of services.
- A. Conurbation
 - B. Primate City
 - C. Hamlet
 - D. Village
18. What is the increase in people moving into towns and cities known as?
- A. Density
 - B. Morphology
 - C. Overpopulation
 - D. Urbanization
19. What is an under populated country?
- A. One with a very low birthrate
 - B. One with a very small population
 - C. One which does not have sufficient resources to support its people
 - D. One with rich resources and few people



20. A Bahamian farmer produces oranges, tomatoes and pineapples. What type of farming is done on this farm?
- A. Arable
 - B. Mixed
 - C. Monoculture
 - D. Pastoral
21. What measure has been taken by the Bahamian government to protect its marine resources?
- A. Allowing only natives to catch fish throughout the year
 - B. Limiting the number of tourists competing in sport fishing
 - C. Regulating the size of the catch
 - D. Using explosives only when it is necessary to catch fish
22. Where in The Bahamas is the production of salt for export taking place?
- A. Andros
 - B. Bimini
 - C. Inagua
 - D. San Salvador
23. Which Caribbean island has a substantial reserve of oil?
- A. Barbados
 - B. Cayman
 - C. Haiti
 - D. Trinidad
24. Which of the following is a main export crop of the Caribbean?
- A. Banana
 - B. Rice
 - C. Tobacco
 - D. Wheat



25. What is the best description for tourists who come to a country on their way to another country?

- A. Cruise ship passengers
- B. Day visitors
- C. Stop over visitors
- D. Transit visitors

26. Figure 6 shows one method for soil conservation. Which method is shown?

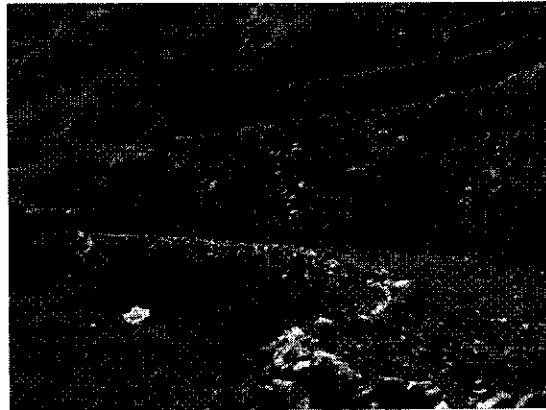


Figure 6

- A. Contour ploughing
- B. Shelter belts
- C. Strip cultivation
- D. Terracing

Use the enclosed Map Extract (Cat Island, Bahamas) to answer questions 27–33

27. What is the direction of the trigonometrical station (256290) from the trigonometrical station at Orange Creek Hill (255252)?
- A. North
 - B. Northwest
 - C. South
 - D. Southwest
28. What is the grid bearing of the trigonometrical station at (256290) from Fortune Hill. (278286)?
- A. 80°
 - B. 100°
 - C. 190°
 - D. 289°
29. Which of the following grid squares contain the steepest slope?
- A. 3225
 - B. 3424
 - C. 3521
 - D. 3524
30. Which location is considered a planned settlement?
- A. Arthur's Town
 - B. Bain Town
 - C. Bonamy Town
 - D. Orange Creek



31. According to map evidence, what are **THREE** functions of Arthur's Town?

1. _____

2. _____

3. _____

_____ [3]

32. Name **TWO** natural features shown in the grid squares references Eastings (29–31) and Northings (23–25).

1. _____ 2. _____ [2]

33. State **TWO** natural attractions offered to the tourists at Flamingo Point.[2]

1. _____ 2. _____ [2]



34. Figure 7 represents an area of Equatorial Rainforest.



Figure 7

- (a) (i) Name **ONE** example of a tree found in the equatorial rainforest.
- _____ [1]
- (ii) Name the **TWO** main areas in the world where this type of vegetation is found.
1. _____ 2. _____ [2]
- (b) Explain **THREE** important characteristics of the vegetation of the equatorial rainforest.
1. _____
- _____
2. _____
- _____
3. _____
- _____ [6]



35. Figure 8 shows an interior view of a cave.



Figure 8

- (a) Define each of the following:

Stalactite: _____

Stalagmite: _____

_____ [2]

- (b) State **TWO** benefits of caves in The Bahamas.

1. _____

2. _____ [2]

- 36 (a) Explain **TWO** advantages and **TWO** disadvantages of developing the Bahamian straw industry.

Advantages:

1. _____

2. _____

_____ [4]

Disadvantages:

1. _____

2. _____

_____ [4]

- (b) Explain **ONE** measure taken by the Bahamian government to improve the straw industry.

_____ [2]



School Number				Candidate Number			
Surname and Initials							

FOR EXAMINER'S USE ONLY	
1–30	
31	
32	
33	
34(a)(i)	
(ii)	
34(b)	
35(a)	
35(b)	
36(a)	
36(b)	
TOTAL	



School Number	Candidate Number
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GEOGRAPHY

PAPER 2 5109/2

Tuesday **5 JUNE 2018** 9:00 A.M.–11:30 A.M.

Additional materials:
Ordnance Survey Map

MINISTRY OF EDUCATION NATIONAL EXAMINATIONS

BAHAMAS GENERAL CERTIFICATE OF SECONDARY EDUCATION

INSTRUCTIONS TO SUPERVISORS

Candidates should be issued at the start of the examination with the paper for which they have been entered **EITHER Paper 2 OR Paper 3**.

Paper 2 is targeted at those candidates who would be expected to achieve a grade within the range C to G.

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 44.4% 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 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 17 printed pages and 3 blank pages.

Study the Ordnance Survey map extract of Port of Spain, Trinidad 1:25,000.

- 1 (a) Give the four figure grid reference for:
- (i) The trigonometrical station at Cumberland Hill in the west of the map.
_____ [1]
 - (ii) The trigonometrical station at Fort George in the west of the map.
_____ [1]
 - (iii) What is the direction of the school at (696782) from the church at (689784)?
_____ [1]
 - (iv) What is the straight line distance to the nearest $\frac{1}{4}$ mile of the road junction at (614807) from the road junction at Maraval (626838)?
_____ [2]
 - (v) Name a physical feature found at (5883) and (5983). _____ [1]
- (b) List **THREE** services provided in Port of Spain for its residents;
- 1. _____
 - 2. _____
 - 3. _____ [3]
- (c) (i) What is the drainage pattern of the Cimarono River (6779)?
_____ [1]
- (ii) Describe how this pattern develops.

_____ [4]



- (d) (i) How is the road network influenced by relief?

 [2]

- (ii) Name the dominant vegetation in squares 6183 and 6283.

 [1]

- (iii) State **TWO** benefits of this type of vegetation.

 [2]

- (iv) A hotel resort is expected to be built near square 6181. Identify **ONE** attraction that can be included in a tourism brochure.

 [1]

2. (a) Apart from colour, what are **TWO** main characteristics of a rock?

1. _____

2. _____ [2]

- (b) (i) Figure 1 shows the rock cycle. Label the figure using the words provided; metamorphic rock, igneous rock, melting, cooling and crystallization, and sediment. [5]

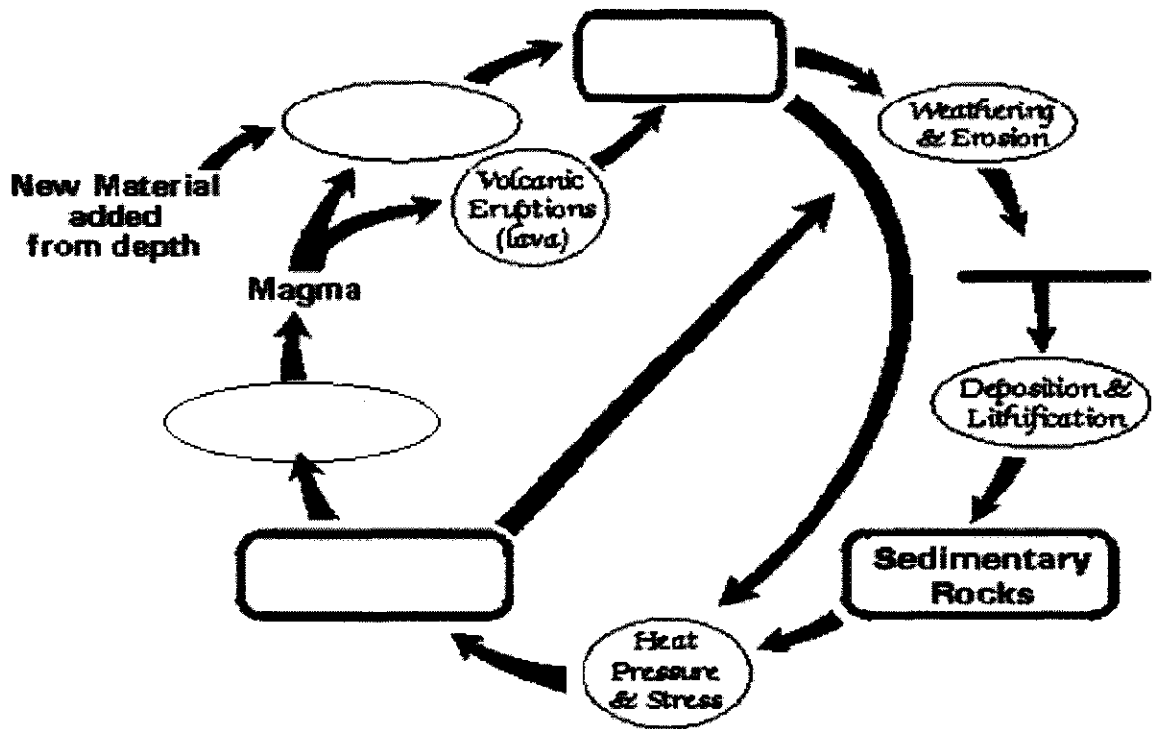


Fig. 1

- (ii) What is the difference between intrusive and extrusive igneous rocks? Provide one example of each.

_____ [6]



(iii) Explain how sedimentary rocks are formed.

1. _____

 2. _____

- [4]

(c) List **THREE** uses of limestone rock.

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



3. (a) (i) What is the difference between weather and climate?

[2]

- (ii) State which instruments are used to measure the elements of weather listed below:

1. Wind Direction –

2. Temperature –

3. Humidity —

 [3]

- (b) Explain how the climate of a place may be affected by any **ONE** of the following factors:

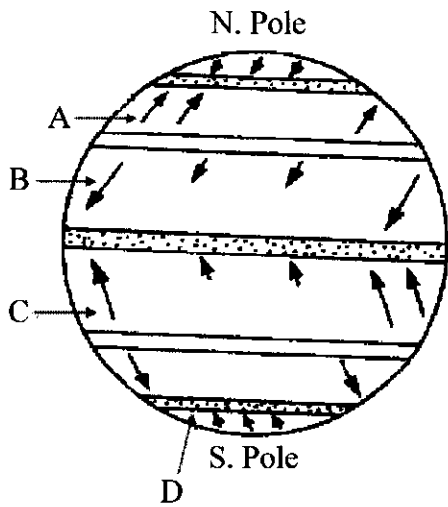
Altitude:

Latitude:

[2]



- (c) (i) Figure 2 shows the planetary wind system. Label A – D.



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

[4]

Fig. 2

- (ii) What is wind?

_____ [1]

- (iii) Explain **TWO** reasons why The Bahamas is warm throughout the year.

1. _____

2. _____

_____ [4]

- (d) Explain **TWO** ways in which the climate of The Bahamas benefits its economy.

1. _____

2. _____

_____ [4]

4. (a) (i) What is the difference between a river's long and cross profile?

[2]

- (ii) What is another name given to each course of a river?

Upper Course _____

Middle Course _____

Lower Course _____ [3]

- (iii) Describe **TWO** differences between the Upper and Lower Course of a river.

Upper Course	Lower Course
1	1
2	2

[4]

- (b) (i) Explain **TWO** factors that would determine the rate of a river's erosion.

1. _____

2. _____

_____ [4]



(ii) Identify **THREE** processes of river erosion.

1. _____

2. _____

3. _____

[3]

(iii) Describe and explain **TWO** processes of river erosion.

1. _____

2. _____

_____ [4]

5. (a) Complete the table below to show **ONE** example of each type of economic activity.

Primary	Secondary	Tertiary	Quaternary

[4]

Figure 3 below shows a simple industrial system.

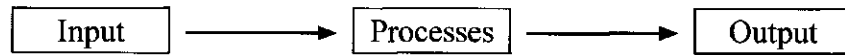


Fig. 3

- (b) Give **THREE** examples of inputs and discuss how they can influence the location of an industry.

INPUT	HOW IT INFLUENCES LOCATION

[6]



- (c) Explain **THREE** things that can be done by a government to encourage industrial development.

1. _____

2. _____

3. _____

_____ [6]

- (d) (i) What is a transnational corporation?

_____ [1]

- (ii) Name **ONE** transnational corporation.

_____ [1]

- (iii) State **TWO** advantages of transnationals.

1. _____

2. _____
_____ [2]

6. (a) (i) Define the term trade.

_____ [1]

- (ii) Identify **TWO** ways that a government can intervene in trade.

1. _____ 2. _____ [2]

- (b) What is the difference between visible and invisible trade?

_____ [1]

- (c) Explain **FOUR** advantages and **ONE** problem associated with trade.

Advantages:

1. _____
2. _____
3. _____
4. _____

Problem:

1. _____ [10]

“Some countries form themselves into trading blocs in order to stimulate economic growth among member countries” New Caribbean Geography, Vohn Rahil.

- (d) (i) Name **TWO** trading blocs:

1. _____
2. _____ [2]



- (ii) Explain **TWO** ways The Bahamas benefits from being a member of a trading bloc.

1. _____

2. _____

_____ [4]



7. (a) (i) What are the main purposes of livestock farming in the Caribbean?
1. _____
2. _____ [2]
- (ii) Identify the term applied to the activities involved in the rearing of livestock.
- _____ [1]
- (b) Explain **THREE** ways that livestock farmers control the feeding of their livestock.
1. _____
- _____
2. _____
- _____
3. _____
- _____ [6]
- (c) (i) Describe **THREE** problems facing the livestock farming industry in the Caribbean.
1. _____
- _____
2. _____
- _____
3. _____
- _____ [6]
- (ii) Propose **TWO** practices that may be implemented to improve the quality and quantity of livestock farming.
1. _____
2. _____ [2]



- (d) Identify **ONE** way that the government of The Bahamas could develop its livestock farming.

[1]

8. (a) (i) Define the term 'resource'.

_____ [1]

- (ii) Distinguish between renewable and non-renewable resources. Provide **ONE** example of each.

_____ [4]

- (iii) Suggest **THREE** reasons for an increasing demand for resources.

1. _____

2. _____

3. _____
_____ [3]

- (b) (i) "Through sustainable development the earth's resources can be protected."
Define the term 'sustainable development.'

_____ [2]



(ii) Identify **FOUR** examples of how sustainable development can be achieved.

1. _____
2. _____
3. _____
4. _____ [4]

(c) (i) Name **TWO** non-edible marine resources of The Bahamas.

1. _____
2. _____ [2]

(ii) Explain **TWO** measures taken by the Bahamian government to protect its marine resources.

1. _____

2. _____

_____ [4]

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School Number	Candidate Number
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Surname and Initials	

GEOGRAPHY

PAPER 3 5109/3

Tuesday **5 June 2018** 9:00 A.M.–11:30 A.M.

Additional materials:
Ordnance Survey Map

MINISTRY OF EDUCATION NATIONAL EXAMINATIONS

BAHAMAS GENERAL CERTIFICATE OF SECONDARY EDUCATION

INSTRUCTIONS TO SUPERVISORS

Candidates should be issued at the start of the examination with the paper for which they have been entered **EITHER Paper 2 OR Paper 3**.

Paper 3 is targeted at those candidates who would be expected to achieve a grade within the range A to D.

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 18 printed pages and 2 blank pages.

Study the Ordnance Survey map extract of Port of Spain, Trinidad 1:25,000.

1. (a) (i) What is the direction of the school at (696782) from the church at (689784)?
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_____ [2]
- (iii) Give the six figure grid reference for:
 - a. The trigonometrical station at Cumberland Hill in the west of the map.
_____ [1]
 - b. The trigonometrical station at Fort George in the west of the map.
_____ [1]
- (iv) Name a physical feature found at (5883) and (5983). _____ [1]
- (b) List **THREE** services provided in Port of Spain for its residents.
 1. _____
 2. _____
 3. _____ [3]
- (c) (i) What is the drainage pattern of the Cimarono River (6779)?

_____ [1]
- (ii) Describe how this pattern develops.

_____ [4]



- (d) (i) Explain **TWO** ways that the road network is influenced by relief.
1. _____

2. _____
_____ [4]
- (ii) Name the dominant vegetation in squares 6183 and 6283.
- _____ [1]
- (iii) State **FOUR** benefits of the above mentioned vegetation.
1. _____
2. _____
3. _____
4. _____ [4]
- (iv) A hotel resort is expected to be built near square 6181. Identify **TWO** attractions that can be included in a tourism brochure.
1. _____
2. _____ [2]

2. (a) Apart from colour, what are **TWO** main characteristics of a rock?

1. _____
2. _____ [2]

- (b) (i) Figure 1 shows the rock cycle. Label the figure using the words provided; metamorphic rock, igneous rock, melting, cooling and crystallization, and sediment. [5]

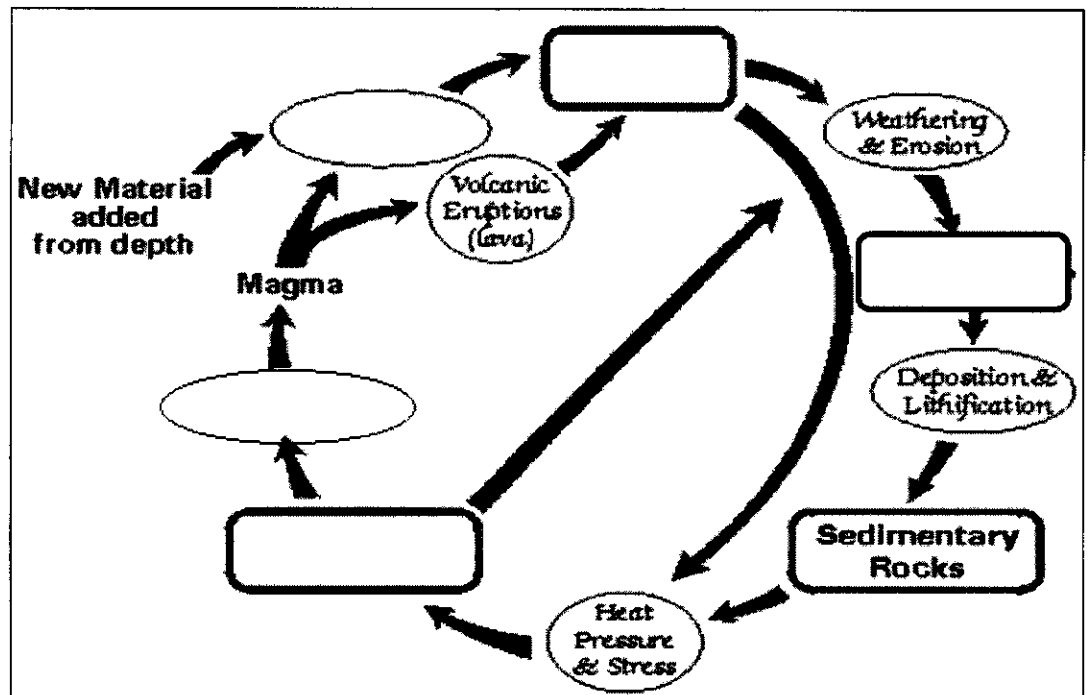


Figure 1

- (ii) Differentiate between intrusive and extrusive igneous rocks. Provide one example of each.

[6]



(iii) Explain **how** sedimentary rocks are formed.

1. _____

 2. _____

- [4]

(c) List **THREE** uses of limestone rock.

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

(d) (i) What are metamorphic rocks?

[1]

(ii) Identify **TWO** things that cause metamorphic rocks to form.

1. _____
 2. _____
- [2]

(iii) Name **ONE** example of a metamorphic rock and state what it was originally.

Metamorphic Rock	Previous Origin

[2]

3. (a) (i) What is the difference between weather and climate?

[2]

- (ii) State which instruments are used to measure the elements of weather listed below.

1. Wind Direction –

2. Temperature –

3. Humidity –

 [3]

- (b) Explain how the pressure of a place may be affected by Altitude and Temperature

Altitude:

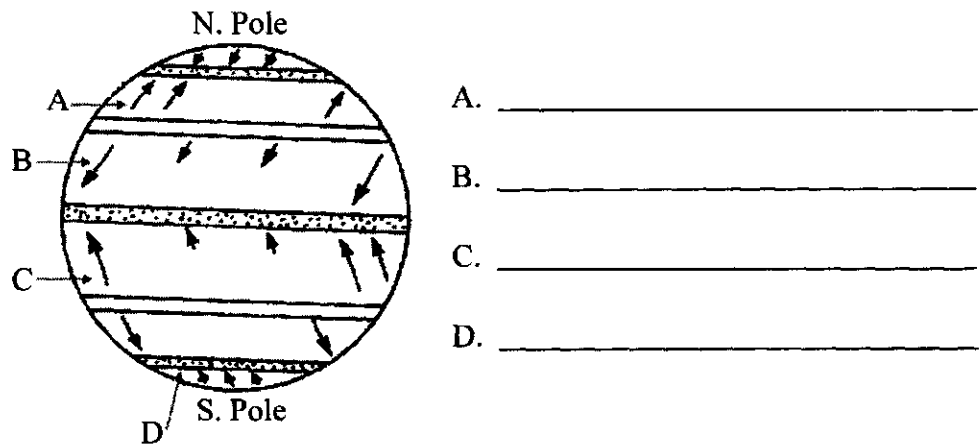
[4]

Temperature:

[2]



- (C) (i) Figure 2 shows the planetary wind system. Label A – D. [4]



- (ii) What is wind? _____ [1]

- (iii) Explain **TWO** reasons why The Bahamas is warm throughout the year.

1. _____
- _____
2. _____
- _____ [4]

- (d) (i) What type of climate does The Bahamas experience. _____ [1]

- (ii) Explain **TWO** ways in which the climate of The Bahamas benefits its economy.

1. _____
- _____
- _____
2. _____
- _____
- _____ [4]

4. (a) (i) What is the difference between a river's long and cross profile?

[2]

- (ii) What is another name given to each course of a river?

Upper Course _____

Middle Course _____

Lower Course _____ [3]

- (iii) Describe **THREE** differences between the Upper and Lower Course of a river.

Upper Course	Lower Course
1.	
2.	
3.	

[6]

- (iv) What is the confluence of a river?

[1]



- (b) (i) Explain **THREE** factors that would determine the rate of a river's erosion.

1. _____

2. _____

3. _____

_____ [6]

- (ii) Identify **THREE** processes of river erosion.

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

- (iii) Describe and explain **TWO** processes of river erosion.

1. _____

2. _____

_____ [4]

5. (a) Complete the table below to show one example of each type of economic activity. [4]

Primary	Secondary	Tertiary	Quaternary

Figure 3 below shows a simple industrial system.



- (b) Give **THREE** examples of inputs and explain how they can influence the location of an industry. [9]

INPUT	HOW IT INFLUENCES LOCATION



(c) What **THREE** things can be done by a government to encourage industrial development?

1. _____

 2. _____

 3. _____

- [3]

(d) (i) What is a transnational corporation?

_____ [1]

(ii) Name **TWO** transnationals.

1. _____ 2. _____ [2]

(iii) Explain **THREE** advantages of transnationals.

1. _____

 2. _____

 3. _____

- [6]

6. (a) Define the term trade.

[1]

- (b) Differentiate between the following groups of terms:

- (i) Visible and Invisible Trade

- (ii) Bilateral and Multilateral Trade

[4]

- (c) Explain **THREE** advantages and **THREE** problems of trade.

Advantages: _____

Problems: _____

[12]



“Some countries form themselves into trading blocs in order to stimulate economic growth among member countries” New Caribbean Geography, Vohn Rahil.

(d) (i) Name **TWO** trading blocs.

1. _____

2. _____

[2]

(ii) Explain **THREE** ways that a country benefits from being a member of a trading bloc.

1. _____

2. _____

3. _____

[6]

7. (a) (i) What are **TWO** main purposes of livestock farming in the Caribbean?
1. _____
2. _____ [2]
- (ii) Identify the term applied to the activities involved in the rearing of livestock.
- _____ [1]
- (b) Explain **THREE** ways that livestock farmers control the feeding of their livestock.
1. _____
- _____
2. _____
- _____
3. _____
- _____ [6]
- (c) (i) Describe **THREE** problems facing the livestock farming industry in the Caribbean.
1. _____
- _____
2. _____
- _____
3. _____
- _____ [6]
- (ii) Suggest **THREE** practices that may be implemented to improve the quality and quantity of livestock farming.
1. _____
2. _____
3. _____ [6]



(d) Examine **TWO** ways the government can develop livestock farming in The Bahamas.

1. _____

 2. _____

- [4]

8. (a) (i) Define the term 'resource'.

_____ [1]

(ii) Distinguish between renewable and non-renewable resources. Provide **ONE** example of each.

_____ [4]

(iii) Suggest **THREE** reasons for an increasing demand for resources.

1. _____

2. _____

3. _____
_____ [3]



(b) "Through sustainable development the earth's resources can be protected."

(i) What is 'sustainable development'?

_____ [2]

(ii) Identify **FOUR** examples of how sustainable development can be achieved.

1. _____
2. _____
3. _____
4. _____ [4]

(c) (i) Name **ONE** non-edible marine resource of The Bahamas.

_____ [1]

(ii) Discuss **THREE** measures taken by the Bahamian government to protect its marine resources.

1. _____

2. _____

3. _____

_____ [6]

- (d) Bauxite is a valuable resource in Jamaica and Guyana. Bauxite is used in the manufacturing of alumina. State **FOUR** reasons why alumina is important.

1. _____

2. _____

3. _____

4. _____

[4]



School Number	Candidate Number
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Surname and Initials	

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1	
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TOTAL	



5109/5

BGCSE

School Number	Candidate Number
<div></div>	<div></div>
Surname and Initials	

GEOGRAPHY

PAPER 5 5109/5

Monday **28 MAY 2018** 10:30 A.M.–12 noon

Additional materials:
Graph paper

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 22.3% of the total marks for core candidates and 20% of the total marks for extended candidates. 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.

This question paper consists of 9 printed pages and 3 blank pages.

Question 1

A group of 12th grade students conducted a study to determine the sphere of influence of a school. The students aimed to find out the distance students travelled from home to school, the length of travel time, the mode of transport and the reason for their choice of school.

- (a) Suggest **TWO** hypotheses that can be tested using the information collected.

1. _____

2. _____

_____ [4]

- (b) Create a questionnaire asking **FOUR** questions, one for each of the aims in part (a).

_____ [8]



- (c) Table 1 shows the results of the distance travelled by students each day. Represent this information on a bar graph. [8]

Distance Travelled	Total
a. Less than 0.5 miles	74
b. 0.5 – 0.9 miles	31
c. 1.0 – 1.4 miles	27
d. 1.5 – 1.9 miles	9
e. More than 2.0 miles	3

Table 1

- (d) Most students selected the school because of its close proximity to their home. Give **TWO** reasons why this may be beneficial to the students.

1. _____

2. _____

_____ [2]

- (e) Name **ONE** group of people who may benefit from this survey and explain why.

_____ [3]

Question 2

A group of geography students conducted a study. Their findings were organised into the following tables.

Debris	Beach A	Beach B
a. Metal	60	20
b. Glass	5	0
c. Plastics	115	100
d. Bottles	76	80
e. Driftwood	40	20
f. Paper	35	38
g. Seaweed	10	30

- (a) (i) Give this table a title.
- _____ [1]
- (ii) Create **THREE** objectives that can be used to conduct this study.
1. _____
2. _____
3. _____ [3]
- (b) Suggest **THREE** hypotheses that can be tested using the information collected.
1. _____
2. _____
3. _____ [3]
- (c) Identify **THREE** tools required to collect data on materials found on a beach.
1. _____ 2. _____ 3. _____ [3]



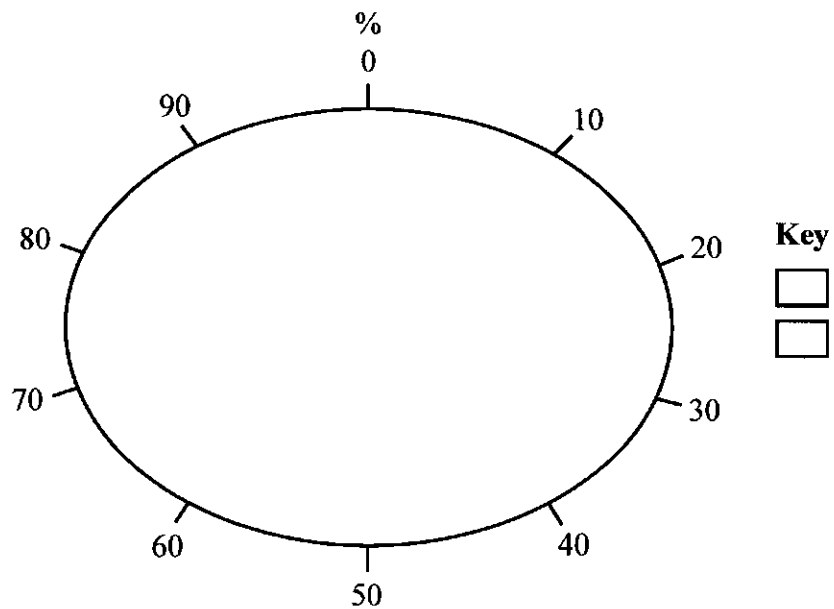
- (d) (i) Complete the table by calculating the total debris found at both beaches. [4]

Debris	Beach A	Beach B	Totals
Man-Made			
Natural			
Could be man-made or natural			

- (ii) What is the percentage of debris found at Beach A?

_____ [1]

- (iii) Create a pie chart representing the percentage of the total amount of the debris found on each beach. [3]



- (iv) Explain **ONE** way that beach debris affects the marine environment.

_____ [2]

(v) State **THREE** possible reasons for the varying amount of debris.

1. _____

2. _____

3. _____

_____ [6]



Question 3

Traffic surveillance was conducted at the Oakes Field Roundabout between 9–10 a.m. and 12–1 p.m. on May 20th 2017.

- (a) Suggest **TWO** reasons why it is important to conduct traffic studies.

1. _____

2. _____

_____ [4]

- (b) There are four streets meeting at this roundabout. What is the minimum number of persons needed to conduct this study and why?

_____ [3]

- (c) After recording data the following tally was taken from a student's fieldwork notebook. Calculate the total for each vehicle type. [3]

Type of Vehicle	9–10 a.m.	12–1 p.m.	Total
Sports Vehicles	IIII IIII IIII	IIII IIII II	
Motorcycles	IIII IIII IIII	-----	
Vans	IIII IIII IIII	IIII IIII	

- (d) The data collected from all the students was added and the following table created.

LOCATION	Vehicles 9-10 a.m.	Vehicles 12-1 p.m.	Male Drivers	Female Drivers
Carter Street	150	198	240	108
Poinciana Drive	2500	3910	4051	2359
Thompson Blvd	1001	2214	1637	1578
Nassau Street	950	1333	785	1498

- (i) What period was the busier of the two?

_____ [1]

- (ii) Suggest **ONE** reason why this period was busier.

_____ [1]

- (e) (i) Describe **THREE** problems students may experience when conducting this study.

1. _____

2. _____

3. _____

_____ [6]



- (ii) Choose **TWO** problems students may encounter when conducting this study and suggest **ONE** solution to each problem.

1. _____

2. _____

_____ [4]

- (f) Apart from creating a roundabout, suggest **TWO** ways that the Bahamian government might attempt to control traffic.

1. _____

2. _____ [2]

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