DISCLAIMER

This document consist of scanned copies of the BGCSE and/or BJC past papers produced by the Bahamas Ministry of Education. The Student Shed accepts no responsibility or liability for the contents within this document, including but not limited to; answers that may be highlighted, missing papers or missing questions.

It is the sole responsibility of the user to determine the correct and most suitable answers for each question contained therein.
For more help preparing for BJC or BGCSE visit
www.TheStudentShed.com
GEOGRAPHY
PAPER 1  5109/1

Monday  28 MAY 2018  9:00 A.M.–10:15 A.M.

Additional materials:
Ordnance Survey Map

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 [ ]
Circle the letter which represents the correct response.

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

   - 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](image)

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](image)

   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 underpopulated 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](image)

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.

(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](image)

(a) Define each of the following:

Stalactite: .......................................................... ..............................

Stalagmite: ..........................................................

(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]
<table>
<thead>
<tr>
<th>FOR EXAMINER'S USE ONLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1–30</td>
</tr>
<tr>
<td>31</td>
</tr>
<tr>
<td>32</td>
</tr>
<tr>
<td>33</td>
</tr>
<tr>
<td>34(a)(i)</td>
</tr>
<tr>
<td>(ii)</td>
</tr>
<tr>
<td>34(b)</td>
</tr>
<tr>
<td>35(a)</td>
</tr>
<tr>
<td>35(b)</td>
</tr>
<tr>
<td>36(a)</td>
</tr>
<tr>
<td>36(b)</td>
</tr>
<tr>
<td>TOTAL</td>
</tr>
</tbody>
</table>
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 ¼ 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 Cimaronero 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]

![Rock Cycle Diagram](image)

**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. 

(c) List THREE uses of limestone rock.

1. 

2. 

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

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

1. Wind Direction — _______________________________ [2]
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.

![Diagram of planetary wind system]

A. ____________________________  [4]
B. ____________________________
C. ____________________________
D. ____________________________

(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. 

<table>
<thead>
<tr>
<th>Upper Course</th>
<th>Lower Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

[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.

<table>
<thead>
<tr>
<th>Primary</th>
<th>Secondary</th>
<th>Tertiary</th>
<th>Quaternary</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[4]

Figure 3 below shows a simple industrial system.

Input ➔ Processes ➔ Output

Fig. 3

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

<table>
<thead>
<tr>
<th>INPUT</th>
<th>HOW IT INFLUENCES LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[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?

(ii) Name ONE transnational corporation.

(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’.

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

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

1. 

2. 

3. 

(b) (i) "Through sustainable development the earth’s resources can be protected.”
Define the term ‘sustainable development.’
(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]
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.

588154   ©MOE 2018

[Turn over
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)?

(ii) What is the straight line distance to the nearest ¼ mile of the road junction at (614807) from the road junction at Maraval (626838)?

(iii) Give the six figure grid reference for:

a. The trigonometrical station at Cumberland Hill in the west of the map.

b. The trigonometrical station at Fort George in the west of the map.

(iv) Name a physical feature found at (5883) and (5983).

(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 Cimaronero River (6779)?

(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. 

(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.

![Rock Cycle Diagram]

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

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

1. 


2. 


[2]

d)(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?

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

1. Wind Direction –  

2. Temperature –  


(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?

(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.

<table>
<thead>
<tr>
<th>Upper Course</th>
<th>Lower Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
</tr>
</tbody>
</table>
| 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]

<table>
<thead>
<tr>
<th>Primary</th>
<th>Secondary</th>
<th>Tertiary</th>
<th>Quaternary</th>
</tr>
</thead>
</table>

Figure 3 below shows a simple industrial system.

Figure 3 → Input → Processes → Output

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

<table>
<thead>
<tr>
<th>INPUT</th>
<th>HOW IT INFLUENCES LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
(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.

(b) Differentiate between the following groups of terms:
   (i) Visible and Invisible Trade
   
   (ii) Bilateral and Multilateral Trade

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

Advantages:

Problems:
"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. 

(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. 


8. (a) (i) Define the term ‘resource’.

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

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

1. 

2. 

3. 

[1] [4] [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]
<table>
<thead>
<tr>
<th>FOR EXAMINER'S USE ONLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>7</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>TOTAL</td>
</tr>
</tbody>
</table>
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.

588155  ©MOE 2018  [Turn over
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]

<table>
<thead>
<tr>
<th>Distance Traveled</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Less than 0.5 miles</td>
<td>74</td>
</tr>
<tr>
<td>b. 0.5 – 0.9 miles</td>
<td>31</td>
</tr>
<tr>
<td>c. 1.0 – 1.4 miles</td>
<td>27</td>
</tr>
<tr>
<td>d. 1.5 – 1.9 miles</td>
<td>9</td>
</tr>
<tr>
<td>e. More than 2.0 miles</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Debris</th>
<th>Beach A</th>
<th>Beach B</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Metal</td>
<td>60</td>
<td>20</td>
</tr>
<tr>
<td>b. Glass</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>c. Plastics</td>
<td>115</td>
<td>100</td>
</tr>
<tr>
<td>d. Bottles</td>
<td>76</td>
<td>80</td>
</tr>
<tr>
<td>e. Driftwood</td>
<td>40</td>
<td>20</td>
</tr>
<tr>
<td>f. Paper</td>
<td>35</td>
<td>38</td>
</tr>
<tr>
<td>g. Seaweed</td>
<td>10</td>
<td>30</td>
</tr>
</tbody>
</table>

(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]

<table>
<thead>
<tr>
<th>Debris</th>
<th>Beach A</th>
<th>Beach B</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Man-Made</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Could be man-made or natural</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(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]

<table>
<thead>
<tr>
<th>Type of Vehicle</th>
<th>9–10 a.m.</th>
<th>12–1 p.m.</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sports Vehicles</td>
<td>III III III III</td>
<td>III III III II</td>
<td></td>
</tr>
<tr>
<td>Motorcycles</td>
<td>III II II II</td>
<td>III III III III</td>
<td></td>
</tr>
<tr>
<td>Vans</td>
<td>III III III II</td>
<td>III III III III</td>
<td></td>
</tr>
</tbody>
</table>
(d) The data collected from all the students was added and the following table created.

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>Vehicles 9–10 a.m.</th>
<th>Vehicles 12–1 p.m.</th>
<th>Male Drivers</th>
<th>Female Drivers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carter Street</td>
<td>150</td>
<td>198</td>
<td>240</td>
<td>108</td>
</tr>
<tr>
<td>Poinciana Drive</td>
<td>2500</td>
<td>3910</td>
<td>4051</td>
<td>2359</td>
</tr>
<tr>
<td>Thompson Blvd</td>
<td>1001</td>
<td>2214</td>
<td>1637</td>
<td>1578</td>
</tr>
<tr>
<td>Nassau Street</td>
<td>950</td>
<td>1333</td>
<td>785</td>
<td>1498</td>
</tr>
</tbody>
</table>

(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]