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GEOGRAPHY

PAPER 1 5109/1

Tuesday **28 MAY 2013** 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, name and initials in the spaces provided at the top of this page.

Answer **ALL** questions. This paper accounts for 60% of the total marks. There are **28** questions in this booklet.

For each of questions 1 through 25

- (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 26 through 28

- (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 best response.

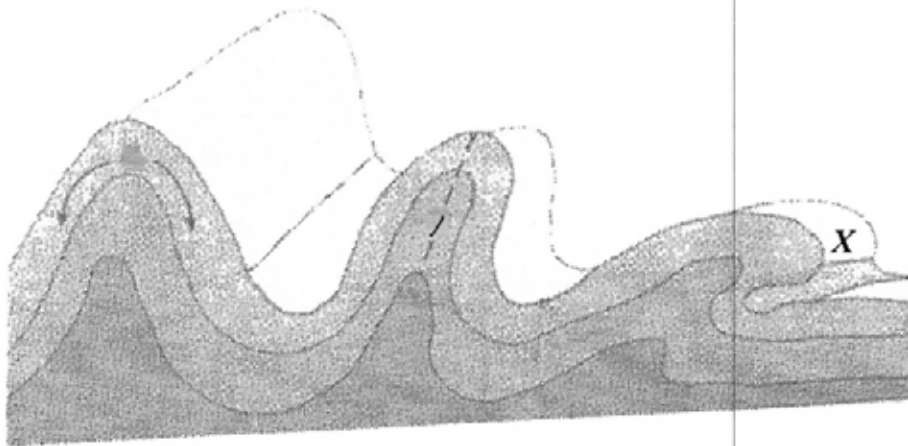
1. Which of the following is the largest crustal plate?
 - A. Eurasian Plate.
 - B. Indo-Australian Plate
 - C. North American Plate
 - D. Pacific Plate.

2. At which type of plate margin is the Mid-Atlantic Ridge located?
 - A. Constructive.
 - B. Destructive.
 - C. Transformative.
 - D. Subductive.

3. What name is given to the heat cells in the mantle which causes plates to move?
 - A. Convection currents.
 - B. P waves.
 - C. RS waves.
 - D. Solar currents.

4. Which of the following rocks has been formed by cooling and solidification?
 - A. Basalt.
 - B. Conglomerate.
 - C. Limestone.
 - D. Slate.

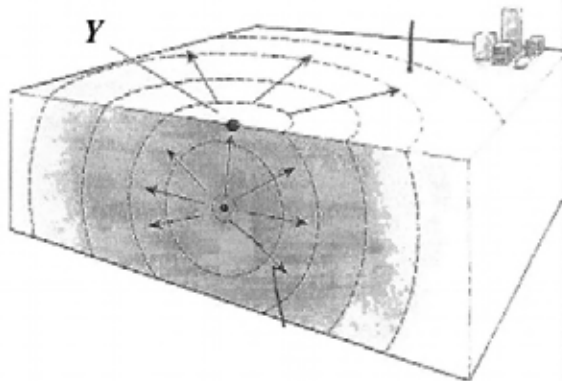
5. Figure 1 shows a series of folds. What type of fold is labelled X?



New Caribbean Geography by Vohn A M Rahil.

Figure 1

- A. Anticline.
B. Thrust.
C. Over-fold.
D. Recumbent.
6. Figure 2 shows the structure of an earthquake. Identify the part of the diagram labelled Y.



Letts Revise Geography

Figure 2

The Structure of an Earthquake.

- A. Crustal Rock.
B. Earth Surface.
C. Epicenter.
D. Focus.

7. What are composite volcanoes made up of?
- A. Ash and cinder.
 - B. Gases and fire.
 - C. Layers of lava and ash.
 - D. Molten rocks and basic lava.
8. Which of the following are very high level clouds?
- A. Alto Cumulus.
 - B. Cirro Cumulus.
 - C. Cumulus.
 - D. Stratocumulus.
9. Which of the following is true, from a rivers source to its mouth?
- A. Depth decreases.
 - B. Gradient increases.
 - C. Volume decreases.
 - D. Width increases.
10. Figure 3 shows weather conditions at an unnamed station. Which of the following best describes the weather conditions?

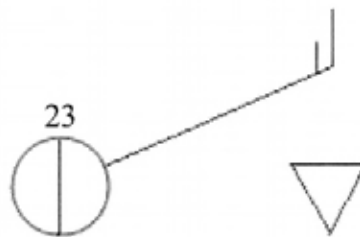
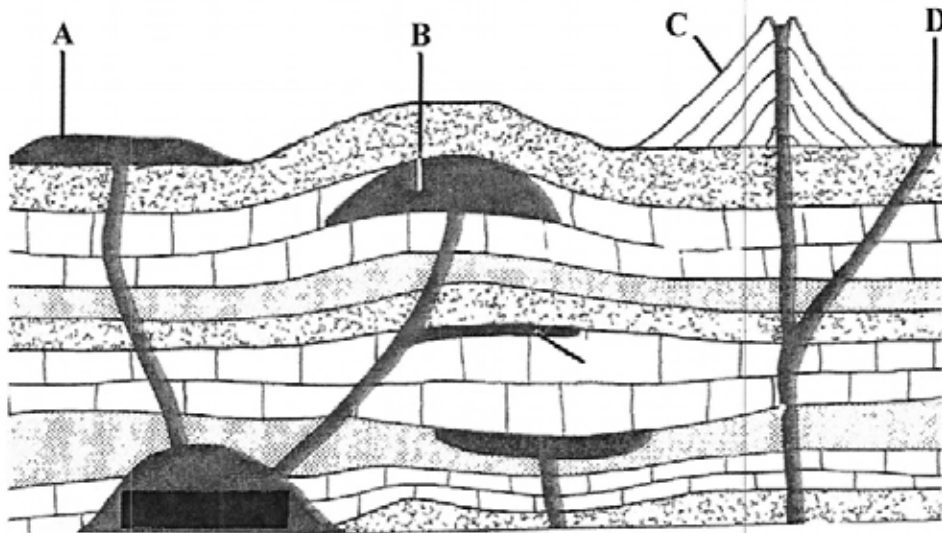


Figure 3

- A. 23 °C, 3 oktas, Easterly Winds, 20 knots.
 - B. 23 °C, 2 oktas, NNE Winds, 15 knots.
 - C. 23 °C, 1 okta, ENE Winds, 15 knots.
 - D. 23 °C, 0 oktas, NE winds, 20 knots.
11. Which industrial activity is the third largest in The Bahamas?
- A. Banking and Financial Services.
 - B. Farming.
 - C. Fishing.
 - D. Tourism.

12. Figure 4 shows intrusive igneous feature. Which letter represents a laccolith?



Principles of Geography for CXC by Norrel London

Figure 4

- A.
B.
C.
D.
13. Which resource pair is wholly non-renewable?
- A. Forests and oil.
B. Oil and natural gas.
C. Rivers and petroleum.
D. Wave and solar energy.
14. Which of the following is the correct latitude of the Tropic of Capricorn?
- A. $23\frac{1}{2}^{\circ}$ N
B. $23\frac{1}{2}^{\circ}$ S
C. $66\frac{1}{2}^{\circ}$ N
D. $66\frac{1}{2}^{\circ}$ S

15. Which Bahamian Island is a major commercial fishing area?
- A. Acklins.
 - B. Harbour Island.
 - C. Rum Cay.
 - D. Spanish Wells.
16. Which Caribbean country is least dependent on agriculture as a means of employment?
- A. Cuba.
 - B. Dominica.
 - C. Haiti.
 - D. Trinidad and Tobago.
17. Commonwealth Brewery is an example of which type of manufacturing industry?
- A. Import substitution.
 - B. Manufacturing for export.
 - C. Offshore industry.
 - D. Traditional Domestic.
18. An unnamed country has a birth rate of 35.9 and a death rate of 10.4. What is the natural increase of population?
- A. 5.2
 - B. 17.9
 - C. 25.5
 - D. 46.3

19. Figure 5 is a diagram of the Demographic Transition Model. During which stage is the rate of natural population increase the greatest?

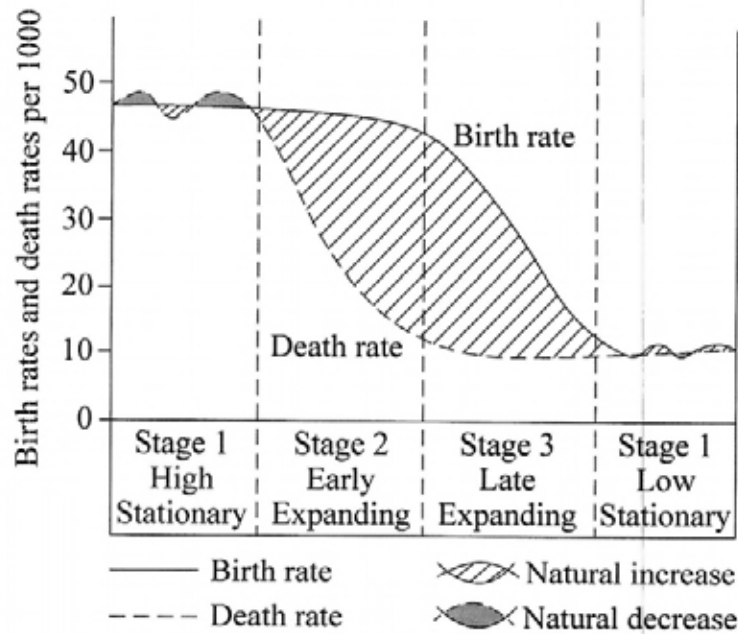


Figure 5

- A. Stage 1.
B. Stage 2.
C. Stage 3.
D. Stage 4.
20. The table below shows tourism statistics for three countries in thousands. Which season experiences the highest number of tourist arrivals?

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Bahamas	84	105	123	106	85	93	96	104	64	68	90	102
Jamaica	68	71	69	60	32	30	36	42	33	32	52	58
Barbados	31	32	33	34	21	22	32	36	24	25	32	34

- A. Autumn.
B. Spring.
C. Summer.
D. Winter.

Use the Ordnance Survey Map (1:25 000) of Grand Bahama to answer the questions.

21. What is the direction of the Lewis Yard Settlement from the Hawksbill Settlement?
- A. North east.
 - B. North west.
 - C. South east.
 - D. South west.
22. Which **two** methods of showing height are used on this map?
- A. Colour shading and spot heights.
 - B. Contours and trigonometrical stations.
 - C. Spot height and colour shading.
 - D. Trigonometrical stations and colour shading.
23. What is the maximum height reached in the area shown on the map?
- A. Above 10 feet.
 - B. Above 20 feet.
 - C. Above 30 feet.
 - D. Above 40 feet.
24. What is the settlement pattern of Pinedale (1837)?
- A. Compact.
 - B. Dispersed.
 - C. Grid Iron.
 - D. Linear.
25. What is the predominant vegetation of this map extract?
- A. Coconuts.
 - B. Mixed Broadleaf Coppice.
 - C. Pine forest.
 - D. Whiteland.

26. (a) (i) What is a creek (e.g. Hawksbill Creek)?

_____ [1]

(ii) Explain **two** reasons why creeks are important.

1. _____

2. _____

_____ [4]

(b) List **three** functions of the area shown on the map.

1. _____

2. _____

3. _____ [3]

(c) What evidence is there to suggest that manufacturing takes place in the area shown?

_____ [1]

(d) Give the six-figure grid reference for each of the following:

(i) Government school near Lewis Yard Settlement.

_____ [1]

(ii) The Navigational Light at the entrance to Freeport Harbour.

_____ [1]

(iii) The Pond near the settlement of Pinedale.

_____ [1]

27. Read the extract below and answer the questions which follow.

The destruction of the forests

Forests covered about 40 per cent of the Earth before people settled down and started farming 8 000 years ago. At first, much of the forest was removed in Europe and Asia as these were the areas where most people lived. However, with the arrival of Europeans in the Americas 500 years ago, **deforestation** and **forest destruction** began here too.

Geography for CSEC - Nelson Thornes

- (a) (i) What is the difference between deforestation and reforestation?

[2]

- (ii) Explain **three** causes of forest destruction.

1.

2.

3.

[6]

- (b) List **four** negative consequences of forest destruction.

1.

2.

3.

4.

[4]

28. Figure 6 shows a ship loading salt for export at Inagua, The Bahamas.

(a) Explain **two** factors that favour salt production in the Southern Bahamas.

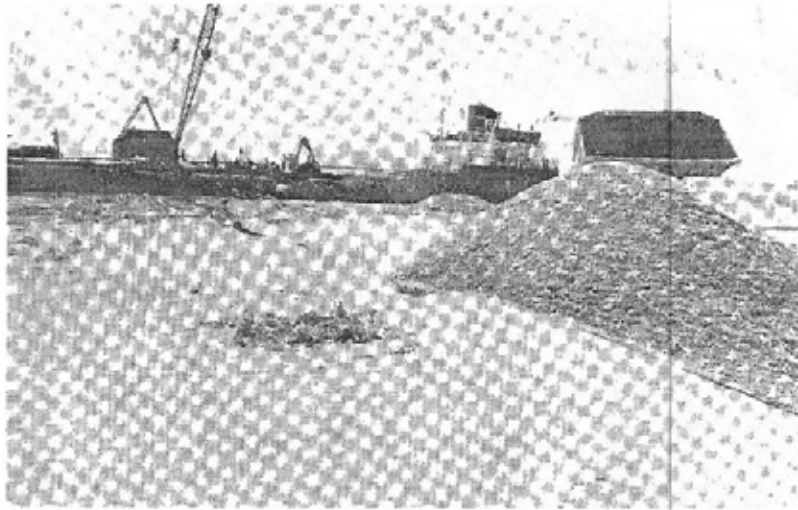


Figure 6

1. _____

2. _____
_____ [4]

(b) Describe the process of salt production.

- _____

_____ [4]

(c) What are **three** problems facing the salt industry?

1. _____

2. _____

3. _____ [3]

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1–25	
26(a)(i)	
(ii)	
(b)	
(c)	
(d)	
27(a)(i)	
(ii)	
(b)	
28(a)	
(b)	
(c)	
TOTAL	

School Number	Candidate Number
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GEOGRAPHY

PAPER 2 5109/2

Tuesday **4 JUNE 2013** 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 on this booklet.

This paper accounts for 50% of the total marks. There are 8 questions in this booklet.

Candidates must answer any **FOUR** 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 28 printed pages and 4 blank pages.

1. Study the Ordnance Survey Map Extract 1:25 000 of St. Christopher and complete the following exercise.

(a) What is the direction of Douglas Estate (2314) from Needsmost Estate (2413)?

_____ [1]

(b) Give the **six** figure grid reference of the following places:

(i) Tower in Dewars (west of the Basseterre settlement).

_____ [1]

(ii) Radio and Television Station (on the outskirts of Basseterre).

_____ [1]

(c) (i) What is the height of the Olivees Mountain?

_____ [1]

(ii) Identify **two** ways by which height is shown on the map extract.

1. _____

2. _____ [2]

(d) Describe the site and location of Basseterre.

_____ [3]

- (e) Identify **two** types of coastal features found on the map and explain the formation of each.

1. _____

2. _____

_____ [6]

- (f) What is the most likely source of water for domestic use?

_____ [1]

- (g) Give **two** reasons why the Golden Rock Airport is located in that particular area of the map extract.

1. _____

2. _____ [2]

- (h) Explain why the expansion of Basseterre to the west would be difficult. [2]

2. Figure 1 shows The Bahamian Platform and its neighbours.

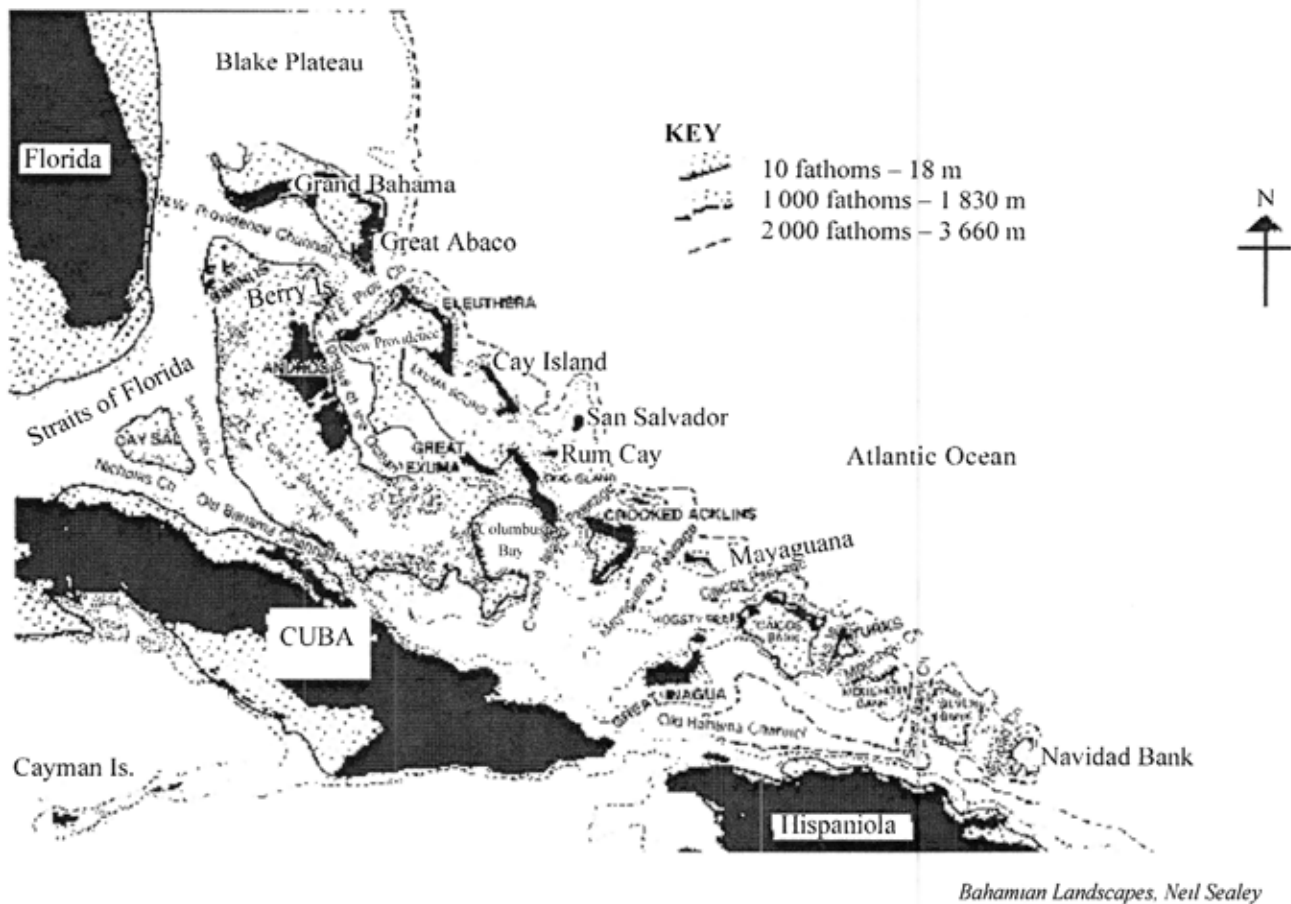


Figure 1

- (a) (i) What does the term “Bahama” mean? _____ [1]
- (ii) Name **two** important banks that are a part of The Bahamas platform.
1. _____
2. _____ [2]

- (b) Describe how sedimentary rocks are formed.

[2]

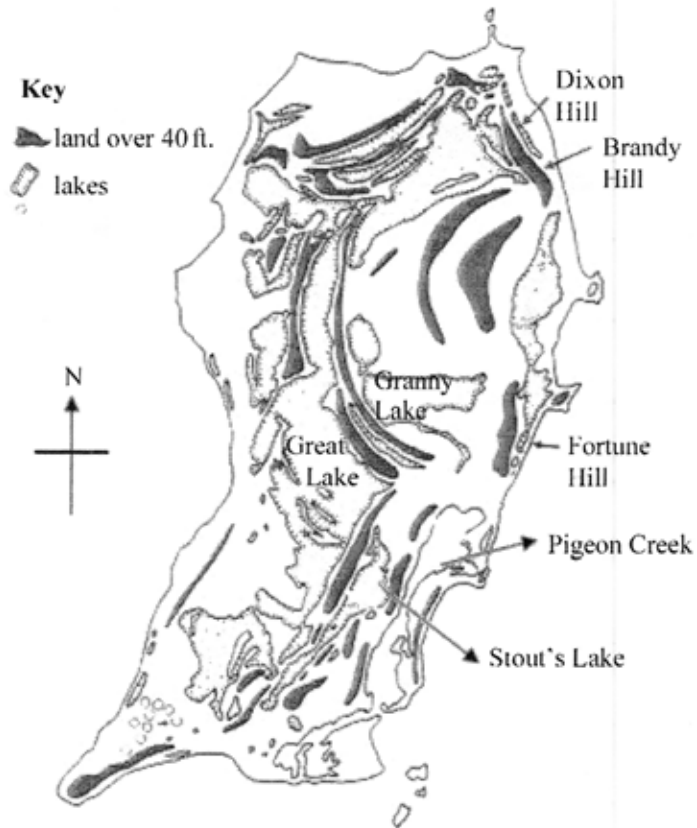
- (c) Identify and describe the rock that predominantly makes up The Bahamian platform.

[3]

- (d) Explain how The Bahamian platform is similar to that of Northern Cuba.

[4]

- (e) (i) Which island in The Bahamas has the highest ridge?
_____ [1]
- (ii) What is its height in feet?
_____ [1]
- (f) Figure 2 shows the ridges of San Salvador.



Bahamian Landscapes, Neil Sealey

Figure 2

(i) Explain **two** benefits of lakes to the local inhabitants of San Salvador.

1. _____

2. _____

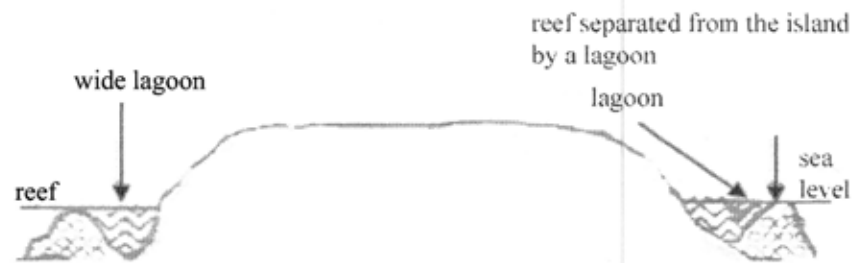
_____ [4]

(ii) Describe **one** land form feature that is associated with ridges.

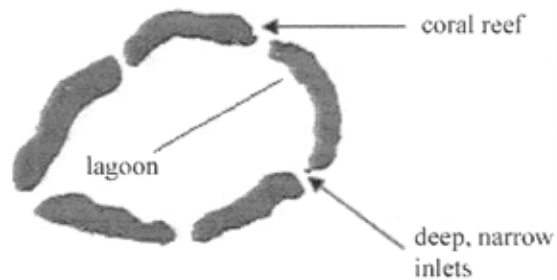
_____ [2]

3. Figure 3 shows different coral reefs.

(i)



(ii)



(iii)



New Caribbean Geography, Vohn Rahl

Figure 3

(a) Label each type of coral reef shown.

(i) _____

(ii) _____

(iii) _____ [3]

(b) Explain **two** conditions necessary for coral growth.

1. _____

2. _____
_____ [4]

(c) Explain **three** reasons why coral reefs are important.

1. _____

2. _____

3. _____
_____ [6]

(d) (i) List **three** threats to coral reefs.

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

(ii) What can be done to protect our coral reefs?

 [4]

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4. Figure 4 shows a typical Bahamian soil profile.

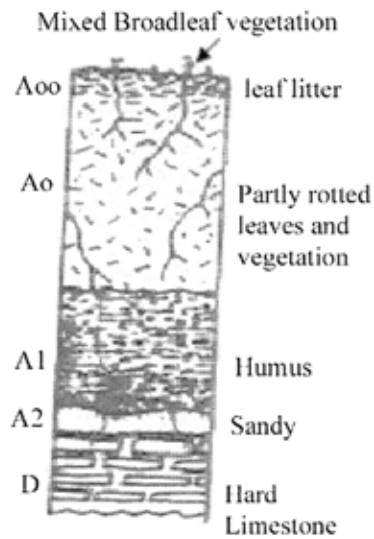
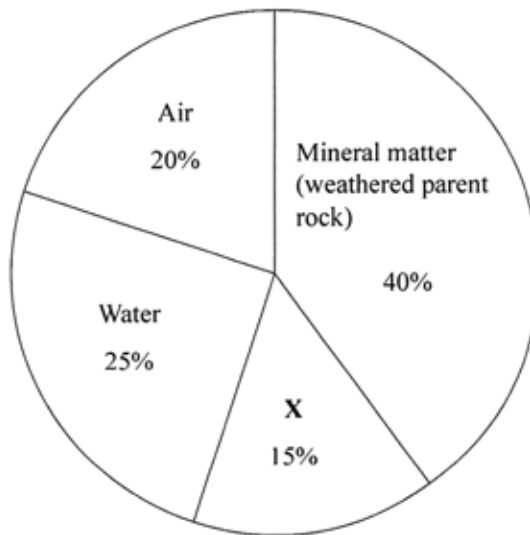


Figure 4

- (a) Define the term "soil".

[1]

- (b) The pie chart below shows components of one example of soil.



- (i) What does "X" in the diagram represent?

[1]

(ii) What makes up organic matter?

[1]

(c) Differentiate between "leaching" and "illuviation".

[2]

- (d) Name and describe **two** main types of Bahamian soils.

1. _____

2. _____

[4]

- (e) Figure 5 shows factors which affect soil formation. Complete the diagram by identifying the missing factors.

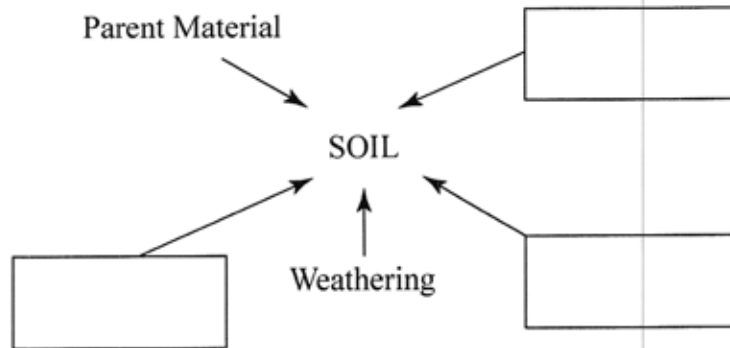


Figure 5

[3]

- (f) Explain **two** types of soil erosion and **two** methods of soil conservation.

Soil erosion:

1. _____

2. _____

Soil conservation:

1. _____

2. _____

[8]

5. Table 1 is a table showing the export of clothing worldwide.

Table 1
Clothing Export Worldwide, 2002

Country	Export 2002 US \$ million	% of national Merchandise export
China	41 303	12.7%
Hong Kong	8 306	45.5%
India	5 482	12.4%
Bangladesh	4 131	67.8%
South Africa	256	0.9%
Mexico	7 751	4.8%
Dominican Republic	2 712	50.9%
Honduras	475	37.4%

- (a) (i) Which country was the largest exporter of clothing in 2002?

_____ [1]

- (ii) In which Caribbean country did the clothing industry make the greatest contribution to export?

_____ [1]

- (b) Many famous clothing companies have subcontractors in Asia, manufacturing their products.

- (i) Explain **three** advantages for companies that manufacture clothing in Asia.

1. _____

2. _____

3. _____

[6]

- (ii) Explain **two** disadvantages for the Asian countries that have United States clothing companies located in them.

1. _____

2. _____

[4]

- (c) In the Caribbean, the garment industry is an example of import substitution industry. It is also a labour intensive industry. Puerto Rico has one of the largest garment industries in the Caribbean.

(i) What is meant by import substitution?

_____ [1]

(ii) Identify **two** examples of import substitution industry in The Bahamas.

1. _____

2. _____ [2]

(iii) Describe **one** factor that favours Puerto Rico over the rest of the Caribbean in terms of the development of the garment industry.

_____ [2]

(d) State **three** benefits to The Bahamas of the development of more food processing companies.

1. _____

2. _____

3. _____

_____ [3]

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6. Table 2 shows worldwide bauxite production for 2010 by 1000 tonnes.

Country	Mined Bauxite
Guinea	17 400
Australia	68 400
Vietnam	80
Jamaica	8 540
Brazil	28 100
Guyana	1 760
India	18 000
China	44 000
Greece	2 100
Suriname	4 000
Sierra Leone	1 090
Kazakhstan	5 310
Venezuela	2 500
Russia	5 480

- (a) (i) Which country is the largest producer of bauxite?

_____ [1]

- (ii) Which country is the largest producer of bauxite in the Caribbean?

_____ [1]

- (iii) Explain **two** benefits of the bauxite industry on the economy of a Caribbean producing country.

1. _____

2. _____

_____ [4]

- (b) Describe **three** negative effects of bauxite mining on the environment.

1. _____

2. _____

3. _____

_____ [6]

- (c) Describe the organisation of transport of bauxite in Guyana.

[4]

- (d) What is **one** difference between the method of mining bauxite in Jamaica with the method used in Guyana?

[2]

- (e) Name the metal extracted from bauxite and state **one** use of it.

[2]

7. (a) Which form of transport would be best suited for each of the following individuals?
- (i) A Canadian businessman who wants to attend a meeting in The Bahamas.
_____ [1]
- (ii) A person who purchases a vehicle in Japan and wishes to transport it to The Bahamas.
_____ [1]
- (iii) A local farmer who wants to transport a sack of potatoes from his field to his home, half a mile away, on unpaved roads.
_____ [1]
- (iv) An American tourist who wants to go sightseeing on a Caribbean Island.
_____ [1]
- (b) (i) Give **two** reasons why the island of New Providence is suitable for large cruise ships to visit.
1. _____

2. _____
_____ [2]
- (ii) Explain **one** advantage of air over cruise ship transport.

_____ [2]

(c) State **two** items that can be transported by way of pipeline transport.

1. _____

2. _____ [2]

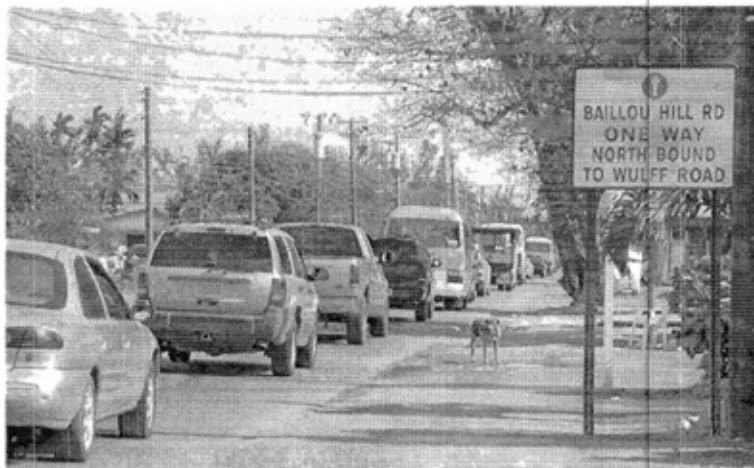
(d) Suggest **two** reasons why containerisation is preferred over the traditional method of transporting dry cargo loose in the ship.

1. _____

2. _____

_____ [4]

(e) Photograph A shows vehicles in traffic.



Photograph A

(i) What are **two** causes of traffic congestion?

1. _____

2. _____ [2]

- (ii) Give **two** measures which the Bahamian government could adopt to reduce traffic congestion in affected areas.

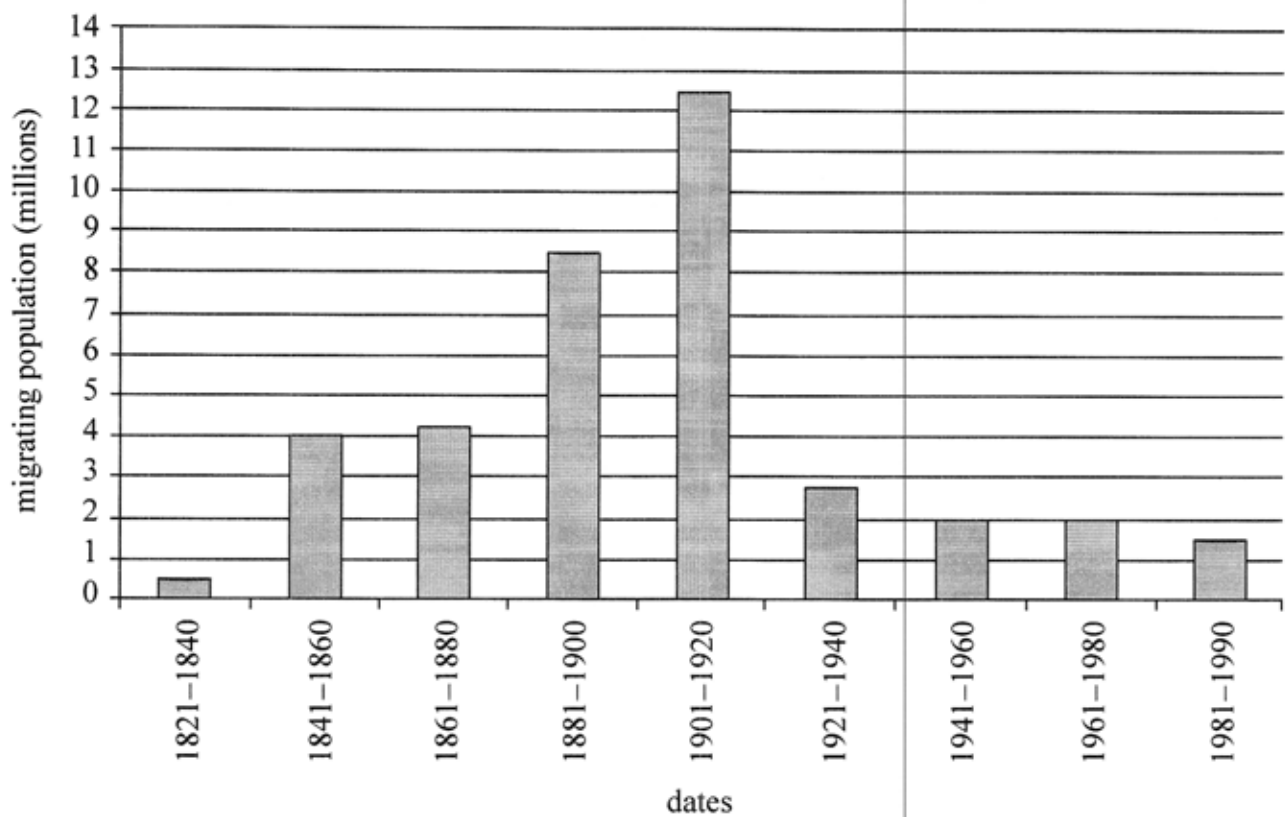
1. _____

2. _____

_____ [4]

8.

European Migration into N. America 1821–1990



- (a) (i) How many people migrated between 1941 and 1990?

[1]

- (ii) Differentiate between an emigrant and an immigrant.

[2]

- (b) (i) Explain **three** pull factors and **two** push factors of immigration.

Pull factors

1. _____

2. _____

3. _____

Push factors

1. _____

2. _____

_____ [10]

- (ii) List **three** problems migrants face.

1. _____

2. _____

3. _____ [3]

- (c) Explain **two** measures taken by governments to lower the rate of illegal immigration.

1. _____

2. _____

_____ [4]

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1	
2	
3	
4	
5	
6	
7	
8	
TOTAL	

School Number	Candidate Number
Surname and Initials	

GEOGRAPHY

PAPER 3 5109/3

Tuesday **4 JUNE 2013** 9:00 A.M.–11:30 A.M.

Additional materials:
Ordnance Survey Map
Answer sheet

MINISTRY OF EDUCATION NATIONAL EXAMINATIONS

BAHAMAS GENERAL CERTIFICATE OF SECONDARY EDUCATION

INSTRUCTIONS TO SUPERVISORS

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

This question paper consists of 22 printed pages and 2 blank pages.

1. Study the Ordnance Survey Map Extract 1:25 000 of St. Christopher and complete the following exercise.

- (a) (i) What is the direction of Fountain Estate (2115) from the Upper Canada Estate (2415)?

_____ [1]

- (ii) Give the bearing of the police station in Stapleton (2215) from the power station in Needsmost (2313/2314).

_____ [2]

- (b) What is the length, in miles, along the light railway between the rail junction (2414) and the bridge at Bridge Gut (2415)?

_____ [2]

- (c) (i) Identify the settlement pattern in the town of Basseterre and explain **one** advantage of this type of settlement.

_____ [3]

- (ii) Explain **two** reasons why the expansion of Basseterre to the west would be difficult.

1. _____

2. _____

_____ [4]

- (d) With the help of map evidence, identify **two** economic activities that can be undertaken by the residents of Basseterre.

1. _____

2. _____ [2]

- (e) (i) Give **two** coastal features east of grid line 24.

1. _____

2. _____ [2]

- (ii) What is the six figure grid reference of the Tower in Dewars, west of Basseterre Settlement?

_____ [2]

- (f) Describe the drainage pattern of the area west of grid line 21.

_____ [3]

- (g) Explain how the road network has been influenced by relief and drainage.

_____ [4]

2. Figure 1 shows The Bahamian Platform and its neighbours.

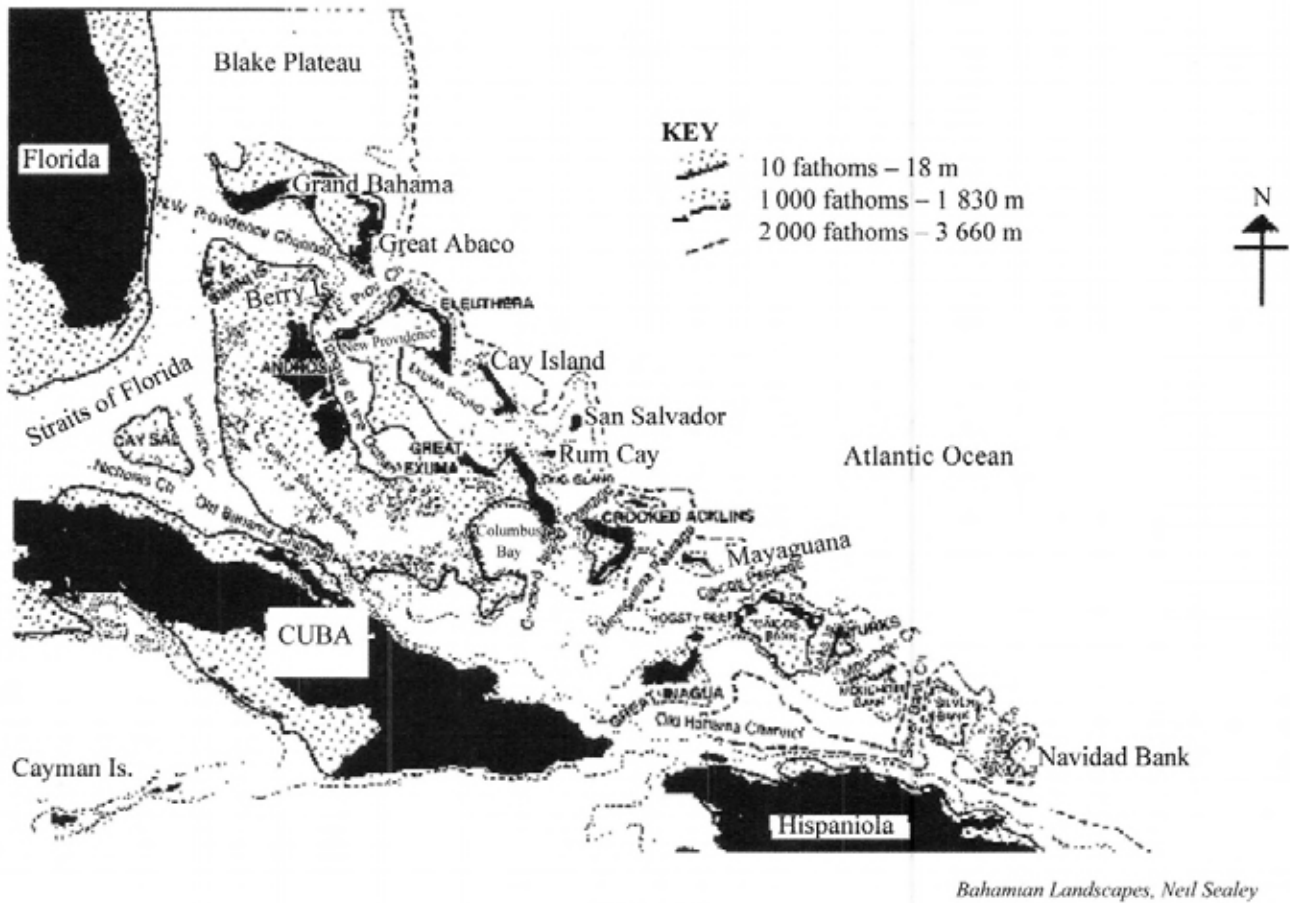


Figure 1

- (a) (i) What does the term “Bahama” mean?
- _____ [1]
- (ii) Name **two** important banks that are a part of The Bahamas platform.
1. _____
2. _____ [2]

- (b) Describe how sedimentary rocks are formed.

[3]

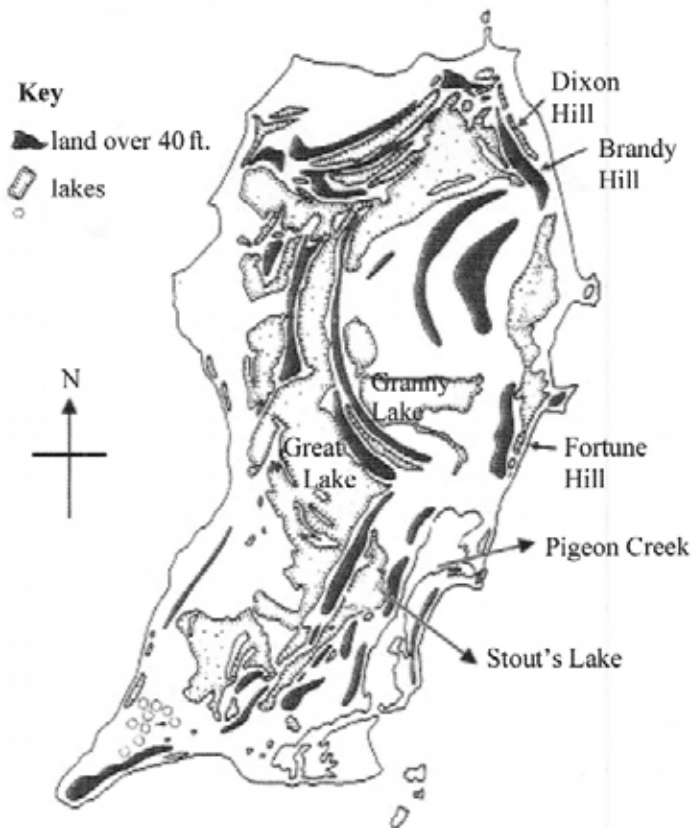
- (c) Identify and describe the rock that predominantly makes up The Bahamian platform.

[3]

- (d) Explain how The Bahamian platform is similar to that of Northern Cuba.

[4]

- (e) (i) Which island in The Bahamas has the highest ridge?
_____ [1]
- (ii) What is its height in feet?
_____ [1]
- (f) Figure 2 shows the ridges of San Salvador.



Bahamian Landscapes, Neil Sealey

Figure 2

- (i) Explain **three** benefits of lakes to the local inhabitants of San Salvador.

1. _____

2. _____

_____ [6]

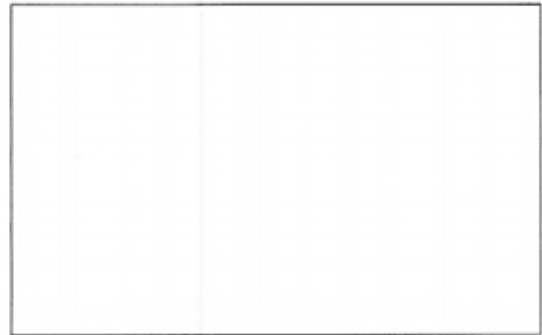
- (ii) Describe **two** landform features associated with the ridges shown in Figure 2.

_____ [4]

3. (a) Draw labelled diagrams to show the following types of coral reefs:

(i) Atoll Reef

(ii) Barrier Reef



[6]

(b) Explain **three** conditions necessary for coral growth.

1. _____

2. _____

3. _____

_____ [6]

(c) Explain **four** reasons why coral reef ecosystems are important.

1. _____

2. _____

3. _____

4. _____

_____ [8]

(d) (i) List **three** threats to coral reefs.

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

(ii) What can be done to protect coral reefs?

_____ [2]

4. Figure 3 shows a typical Bahamian soil profile.

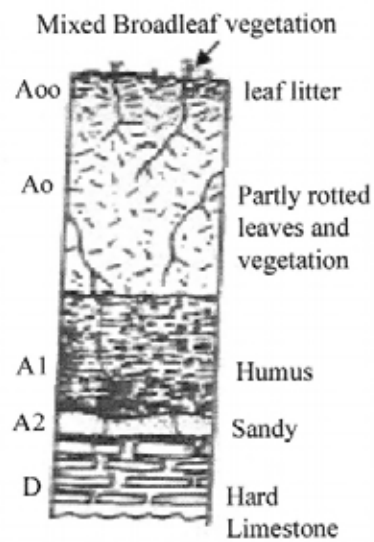


Figure 3

- (a) (i) Explain what a "soil profile" is.

[2]

- (ii) Compare podzols to chernozem soils.

[6]

- (iii) Under which type of vegetation are Latosols created?

_____ [1]

- (b) Figure 4 shows factors affecting soil formation. Complete the flow diagram below to identify **four** other factors.

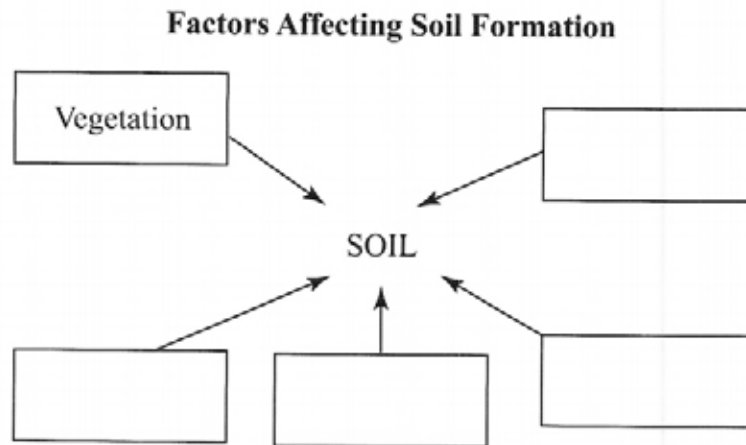


Figure 4

[4]

- (c) (i) Describe **three** ways that soil may be eroded.

1. _____

2. _____

3. _____

_____ [6]

(ii) Explain **three** methods of conserving soil.

1. _____

2. _____

3. _____

_____ [6]

5. Table 1 is a table showing the export of clothing worldwide.

Table 1
Clothing Export Worldwide, 2002

Country	Export 2002 US \$ million	% of national Merchandise export
China	41 303	12.7%
Hong Kong	8 306	45.5%
India	5 482	12.4%
Bangladesh	4 131	67.8%
South Africa	256	0.9%
Mexico	7 751	4.8%
Dominican Republic	2 712	50.9%
Honduras	475	37.4%

- (a) (i) Which country was the largest exporter of clothing in 2002?
_____ [1]
- (ii) In which Caribbean country did the clothing industry make the greatest contribution to export?
_____ [1]

(b) Many famous clothing companies have subcontractors in Asia, manufacturing their products.

(i) Explain **three** advantages for companies that manufacture clothing in Asia.

1. _____

2. _____

3. _____

_____ [6]

(ii) Explain **three** disadvantages for the Asian countries that have United States clothing companies located in them.

1. _____

2. _____

3. _____

_____ [6]

- (c) In the Caribbean, the garment industry is an example of import substitution industry. It is also a labour intensive industry. Puerto Rico has one of the largest garment industries in the Caribbean.

(i) What is meant by import substitution?

_____ [1]

(ii) Identify **three** examples of import substitution industry in The Bahamas.

1. _____

2. _____

3. _____ [3]

(iii) Describe **two** factors that favours Puerto Rico over the rest of the Caribbean in terms of the development of the garment industry.

1. _____

2. _____

_____ [4]

(d) State **three** benefits to The Bahamas with the development of more food processing companies.

1. _____

2. _____

3. _____

_____ [3]

6. Table 2 shows worldwide bauxite production for 2010 by 1000 tonnes.

Table 2

Country	Mined Bauxite
Guinea	17 400
Australia	68 400
Vietnam	80
Jamaica	8 540
Brazil	28 100
Guyana	1 760
India	18 000
China	44 000
Greece	2 100
Suriname	4 000
Sierra Leone	1 090
Kazakhstan	5 310
Venezuela	2 500
Russia	5 480

- (a) (i) Which country is the largest producer of bauxite?

_____ [1]

- (ii) Which country is the largest producer of bauxite in the Caribbean?

_____ [1]

- (iii) Explain **two** benefits of the bauxite industry on the economy of Caribbean bauxite producing countries.

1. _____

2. _____

_____ [4]

- (b) Describe **three** negative effects of bauxite mining on the environment.

1. _____

2. _____

3. _____

_____ [6]

- (c) Describe the organisation of transport of bauxite in Guyana.

[4]

- (d) Explain **three** differences between bauxite mining in Jamaica and bauxite mining in Guyana.

1.

2.

3.

[6]

- (e) Name the metal extracted from bauxite and state **two** uses of it.

1.

2.

[3]

QUESTIONS CONTINUE ON THE NEXT PAGE

7. (a) Why is the island of New Providence suitable for large cruise ships?

 [2]

- (b) Discuss **two** characteristics of a good harbour.

1.

2.

 [4]

- (c) (i) Explain the term "transshipment port".

 [2]

- (ii) Suggest **three** reasons why containerisation is preferred over the traditional method of carrying dry cargo loose in the ship.

1.

2.

3.

 [6]

- (d) State **one** advantage and **one** disadvantage of the following types of transport.

Table 3

Table showing advantages and disadvantages of different types of transport.

Types of Transport	Advantage	Disadvantage
Rail		
Human		
Road		

[6]

- (e) (i) Why is traffic congested in many urban areas?

_____ [1]

- (ii) Give **two** measures a government can use to reduce traffic congestion in urban areas.

1. _____

2. _____
_____ [4]

8.

Bar Graph showing European Migration into N. America 1821–1990

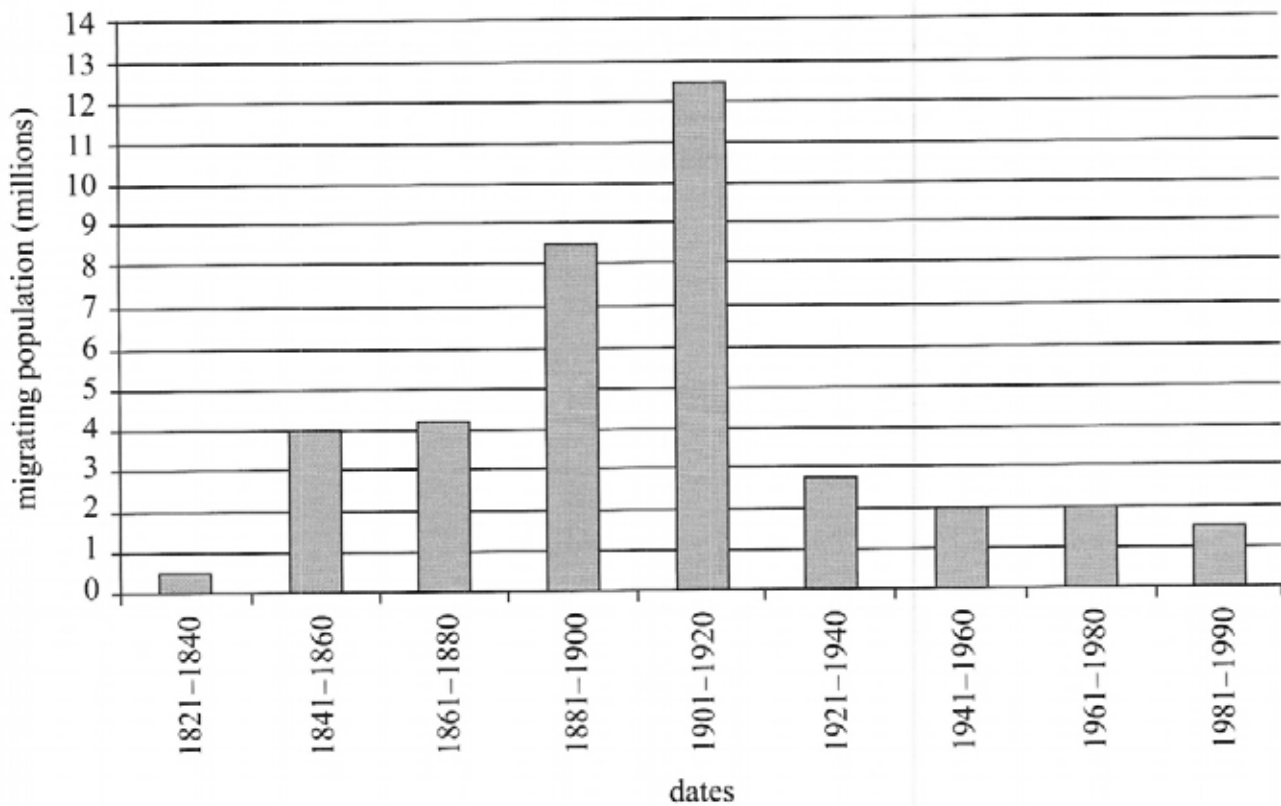


Figure 5

- (a) (i) How many people migrated between 1941 and 1990?

_____ [1]

- (ii) Differentiate between an emigrant and an immigrant.

_____ [2]

- (b) (i) Explain **three** pull factors and **two** push factors of immigration.

Pull factors

1. _____

2. _____

3. _____

Push factors

1. _____

2. _____

_____ [10]

- (ii) Explain **three** problems faced by migrants on arrival to the country to which they have migrated.

1. _____

2. _____

3. _____

_____ [6]

- (c) Explain **three** measures taken by Governments to lower the rate of illegal immigration.

1. _____

2. _____

3. _____

_____ [6]

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Surname and Initials

GEOGRAPHY**PAPER 5 5109/5****Tuesday 28 MAY 2013 10:30 A.M.–12:00 noon****Additional materials:****None****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 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.

This question paper consists of 12 printed pages and 4 blank pages.

1. The purpose of a study is to investigate the impact of humans on a beach area by studying the debris on the foreshore approximately 30 feet wide and 100 feet in length. The class of 20 students was divided into four groups. Each group was responsible for collecting and recording the litter in a 25 feet length of a beach.

(a) Explain why the class was divided into groups.

 [2]

(b) List **three** items that each group should have in order to conduct this survey safely and efficiently.

1.

2.

3.

 [3]

(c) Suggest **one** hypothesis that can be used in this study.

 [2]

- (d) At the end of the survey the data collected was put into a table.

Table 1

Type of Debris	Number
Plastic	110
Styrofoam	70
Cloth	15
Paper	90
Wood	40
Other	10

- (i) Which **two** types of debris accounted for the greatest proportion of the total collected?

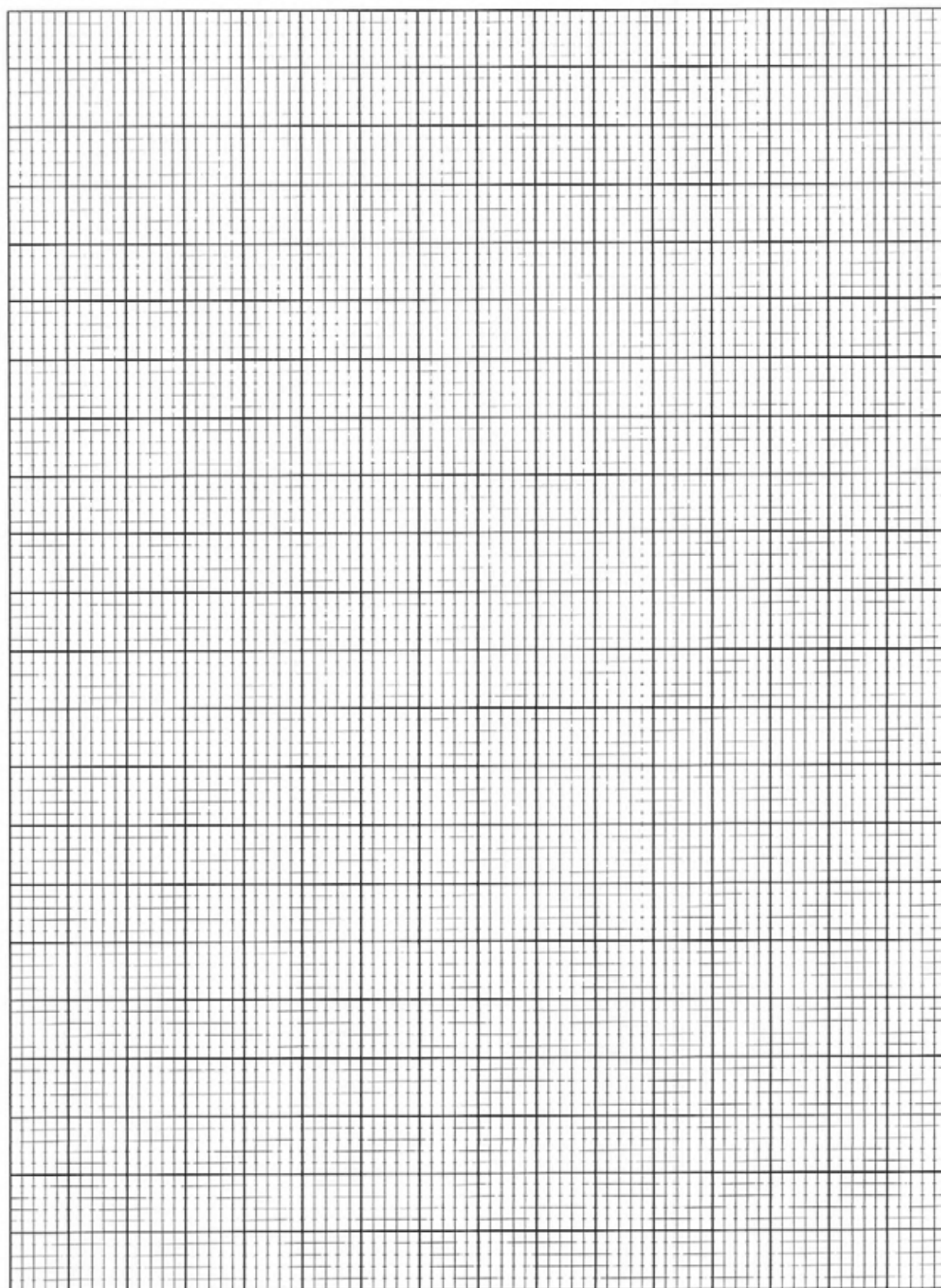
1. _____

2. _____ [2]

- (ii) What was the total number of debris items collected?

_____ [1]

- (e) Use the data in the table on page 3 to construct a bar graph to show types and amounts of beach debris collected.



[10]

- (f) Using the data collected, write an analysis of the study.

[illegible]

- (g) Identify **one** challenge that students may have experienced in collecting this data.

[1]

2. A plan has been drawn up by the government to expand its road works through a shanty town of 150 people. Hence, there is a proposal to relocate these settlers. As a member of a special team set up to look for a new site for these settlers, you are required to carry out a geographical study.

(a) What is the difference between “site” and “situation”?

_____ [2]

(b) Give a suitable title for this study.

_____ [1]

(c) List **three** methods by which data for this study could be collected.

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

(d) Name **two** tools or pieces of equipment that may be used in this study to collect information.

1. _____
2. _____ [2]

- (e) Explain **four** factors that must be taken into account when finding a suitable site for a settlement.

1. _____

2. _____

3. _____

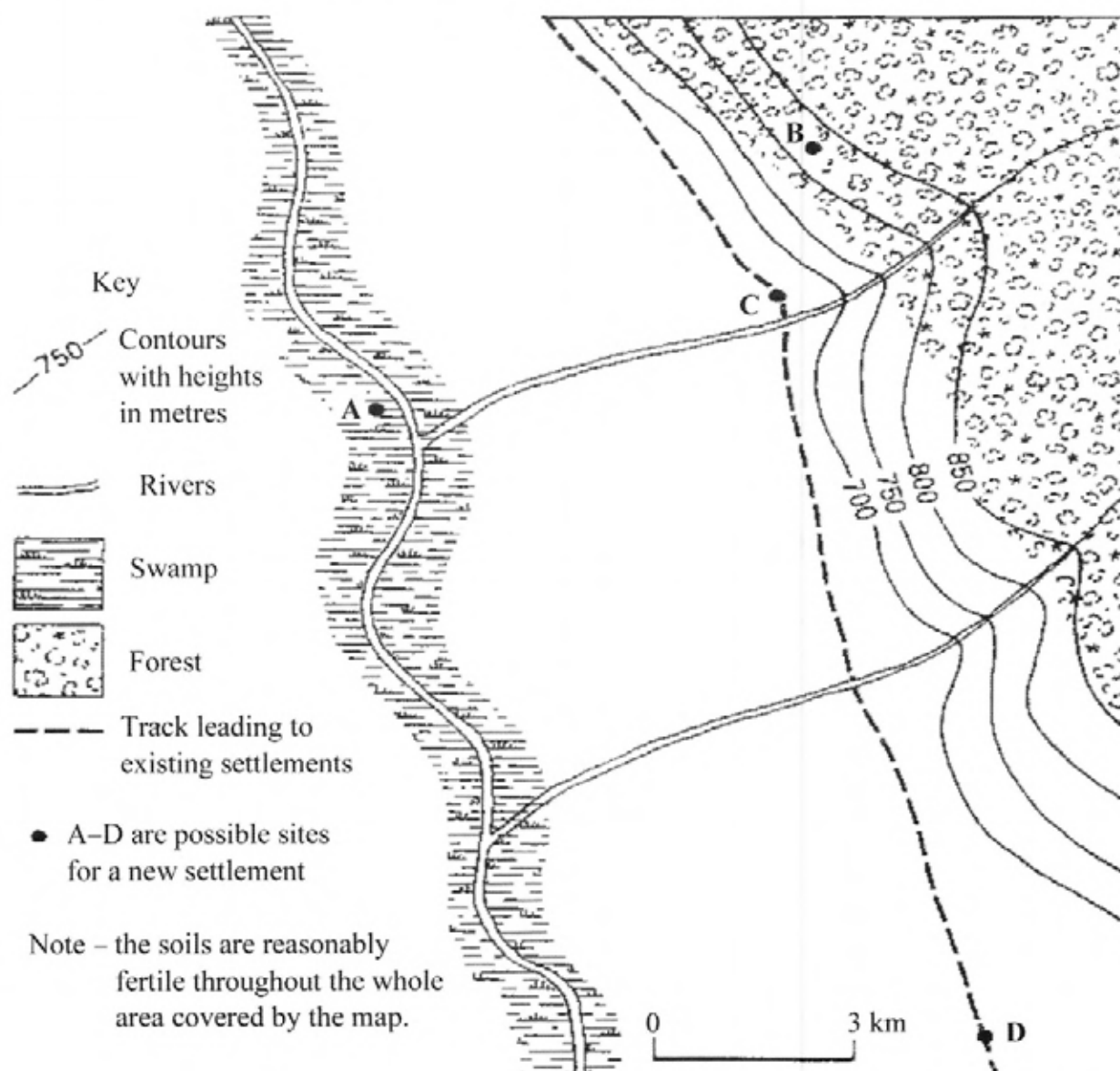
4. _____

_____ [8]

- (f) What is **one** problem that may be encountered when conducting this study?

_____ [1]

- (g) After conducting this study, four possible places were suggested for the relocation of the shanty town. Use the map below, to state **one** advantage and **one** disadvantage in choosing **sites A, B, C and D** as shown on the map below. Answers should be placed on the table below.



Principles of Geography

Figure 1

Possible Site	Advantage	Disadvantage
A		
B		
C		
D		

[8]

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3. A group of students are required to conduct a study on water quality in rural and urban areas. They are required to determine the source of pollution, which area is more polluted and to provide solutions to the problems of water pollution.

(a) Write **three** hypothesis statements that can be applied to this study.

1. _____

2. _____

3. _____

_____ [3]

(b) List **three** safety precautions that should be taken when conducting this study.

1. _____

2. _____

3. _____ [3]

(c) Explain **three** data collection methods.

1. _____

2. _____

3. _____

_____ [6]

- (d) At site **A** there was an absence of aquatic life. At site **B** eutrophication was taking place. Which site's pollution was caused by Organic Matter and which site by Nitrate Pollution?

organic matter

nitrate pollution

Site _____

Site _____

[2]

- (e) Identify **two** causes of nitrate pollution and **two** sources of organic matter pollution.

nitrate pollution

1. _____

2. _____

organic matter pollution

1. _____

2. _____ [4]

- (f) Identify **three** techniques that can be used to present the information collected.

1. _____

2. _____

3. _____ [3]

- (g) List **two** limitations and **two** strengths of this study.

limitations

1. _____

2. _____

strengths

1. _____

2. _____

[4]

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