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GEOGRAPHY

PAPER 1 5109/1

Thursday **9 JUNE 2022** 9:00 A.M.–10:00 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 30% of the total marks. There are **32** 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 32.

- (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 13 printed pages and 3 blank pages.

Use the Ordnance survey map extract (1:50,000) of Black River, Jamaica to answer questions 1–12.

1. What is the compass direction of New Market (2345), in the north-west of the map extract from Burnt Ground (3041) which is in the south-east of the map?
 - A. NE
 - B. NW
 - C. SE
 - D. SW

2. What is the compass bearing of the church at Brompton (2442) to the bridge at Shaws (2644)?
 - A. 32°
 - B. 58°
 - C. 122°
 - D. 148°

3. What is the height of the highest point in grid square 2446?
 - A. 1500 feet
 - B. 1750 feet
 - C. 2000 feet
 - D. 2292 feet

4. What is the distance (**in miles**) along the road from the bridge at Shaws (2644) south-west to the road junction at Baptist (2543) Give your answer to the nearest mile.
 - A. 1 mile
 - B. 2 miles
 - C. 3 miles
 - D. 4 miles

5. What is the dominant vegetation in this map extract?
 - A. Forest
 - B. Scrub
 - C. Coconut
 - D. Sugar cane



6. What is the four figure grid reference for 'Forest Mountain' in the west of the map extract?
- A. 2243
 - B. 2343
 - C. 2442
 - D. 2344
7. Suggest **ONE** negative impact of the swamp located to the south of the map extract?
- A. Purifies the water supply
 - B. Provides a habitat for fish and wildlife
 - C. It attracts a lot of insects which spread diseases
 - D. It provides opportunities for research
8. Which physical feature is found in grid 3042?
- A. Beach
 - B. Cliff
 - C. Mountain
 - D. Swamp
9. Which man-made feature is found in grid 2241?
- A. Hospital
 - B. Post office
 - C. Road
 - D. School
10. Which service shown in grid 2540 would tourists most likely utilise?
- A. The church
 - B. The high school
 - C. The hospital
 - D. The spa

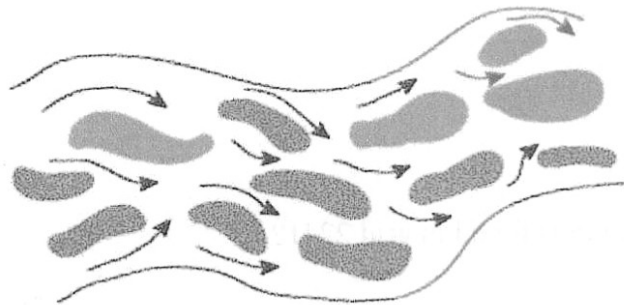
11. What is the method of transportation used in grid 2746?

- A. Boat
- B. Cargo
- C. Rail
- D. Road

12. Which drainage pattern is shown to the eastern section of the map extract?

- A. Dendritic
- B. Radial
- C. Ribbon
- D. Trellis

13. The diagram below shows a braided channel. What term is used to describe a river that is divided into a series of channels?



- A. Braiding
- B. Cross riffle
- C. Point bar
- D. Straight channel

14. How many cloud oktas are shown?



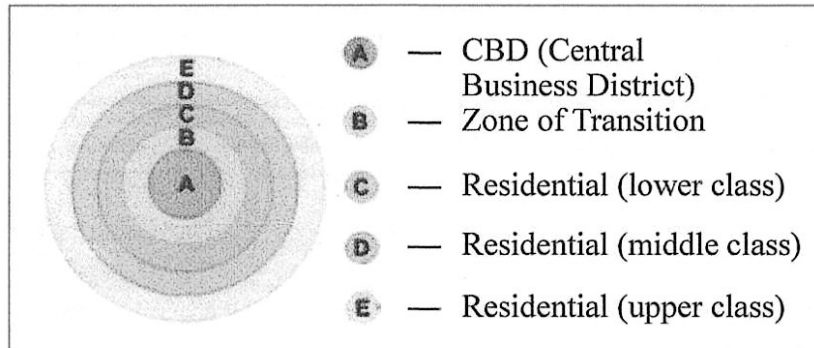
- A. 1 okta
- B. 2 oktas
- C. 3 oktas
- D. 4 oktas



15. Which type of soil is found in temperate grassland regions?

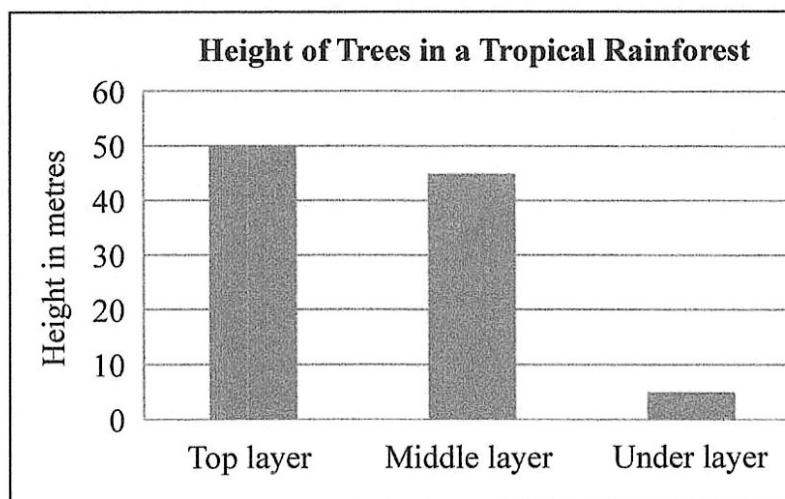
- A. Chernozems
- B. Latosols
- C. Podzols
- D. Rendzina

16. Which of the following areas would have the highest population density?



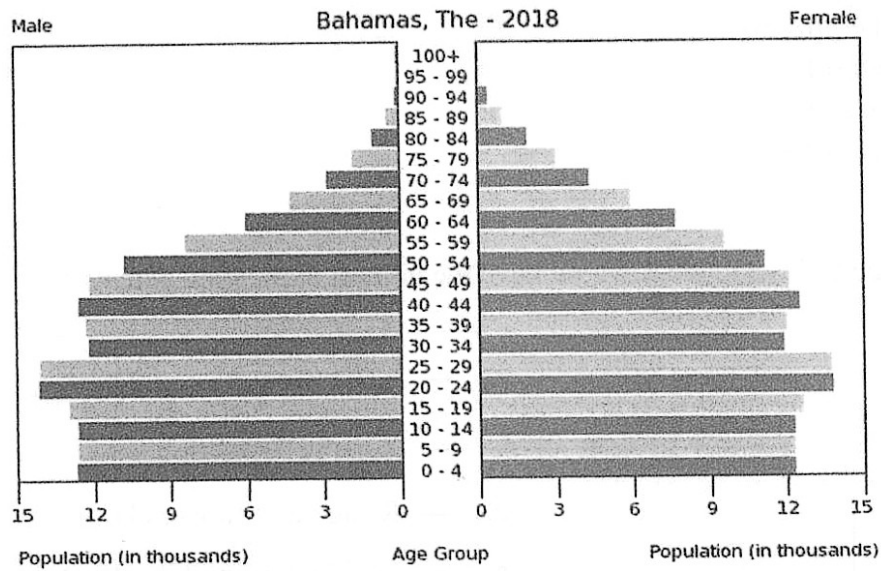
- A. A central business district
- B. A squatter settlement
- C. A suburban residential
- D. Medium class residential

17. The bar graph shows the height of trees for a tropical rainforest. How tall are the trees in the middle layer?



- A. 5 metres
- B. 10 metres
- C. 45 metres
- D. 50 metres

18. What percentage of males in The Bahamas are between 60–64 years old?



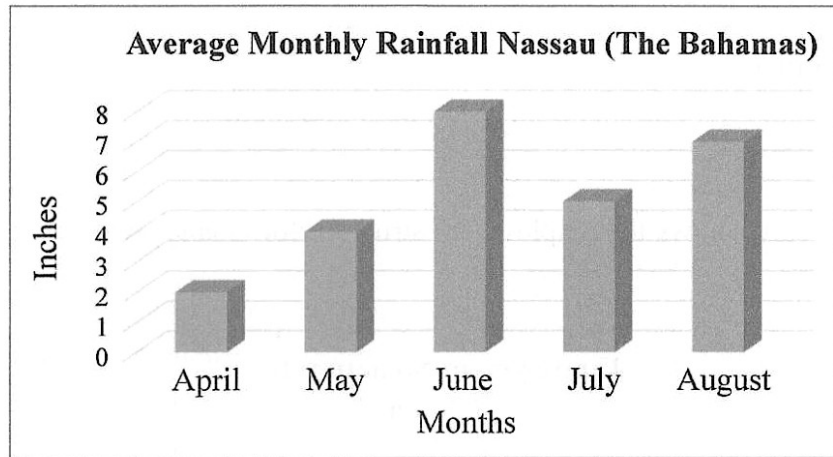
- A. Three percent
 B. Four percent
 C. Five percent
 D. Six percent
19. How fast is the wind blowing based on the description shown below?



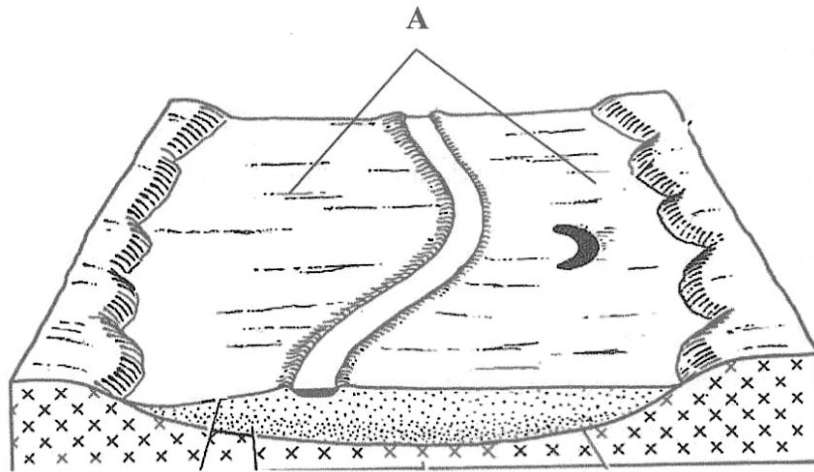
- A. 13–17 knots
 B. 23–27 knots
 C. 28–32 knots
 D. 33–42 knots



20. The column graph shows the average monthly rainfall for Nassau (The Bahamas). Which month recorded the highest amount of rainfall?



- A. August
B. May
C. July
D. June
21. The diagram below shows a river valley. What is the name given to this stage of a river valley?

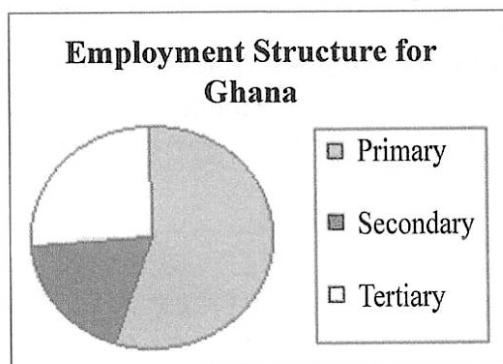


- A. Lower stage
B. Middle stage
C. Torrent
D. Youthful

22. What is the name of the feature labelled A on the river valley diagram above?

- A. Bluff
- B. Delta
- C. Flood Plain
- D. Levee

23. The diagram below shows the employment structure for Ghana. Which sector employs the most people?



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

24. Which of the following is the most abundant greenhouse gas?

- A. Carbon dioxide
- B. Methane
- C. Ozone
- D. Sulphur dioxide

25. What causes tectonic plates to move?

- A. Convection currents
- B. P waves
- C. S waves
- D. Solar waves



26. What is the process by which water vapour cools and forms droplets?
- A. Condensation
 - B. Convection
 - C. Evaporation
 - D. Percolation
27. Which statement defines a batholith?
- A. A feature formed at the mouth of rivers
 - B. A sheet of magma that lies along a bedding plane
 - C. A very large mass of magma that accumulates in the crust
 - D. The remains of weathered material at the foot of a slope
28. Which of the following is a process in mass wasting?
- A. Attrition
 - B. Suspension
 - C. Oxidation
 - D. Soil creep
29. Which term describes the rearing of animals that require constant movement?
- A. Commercial arable
 - B. Market gardening
 - C. Nomadic Pastoralism
 - D. Plantation agriculture
30. If the birthrate in a country is 30 per 1000, and the death rate is 20 per 1000, what is the natural increase?
- A. 10 per 1000
 - B. 20 per 1000
 - C. 30 per 1000
 - D. 50 per 1000

31. (a) (i) The photograph shows an area that is flooded. Using the photograph, identify **FOUR** hazards that have been caused by flooding. [4]



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

- (ii) State **TWO** hard engineering strategies often used to prevent flooding. [2]

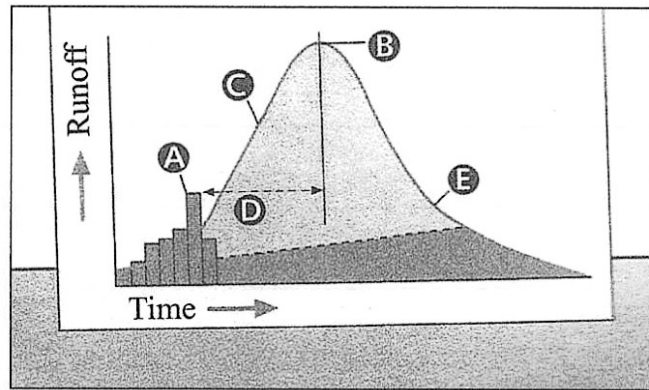
1. _____
2. _____

- (iii) State **TWO** soft engineering strategies often used to prevent flooding. [2]

1. _____
2. _____

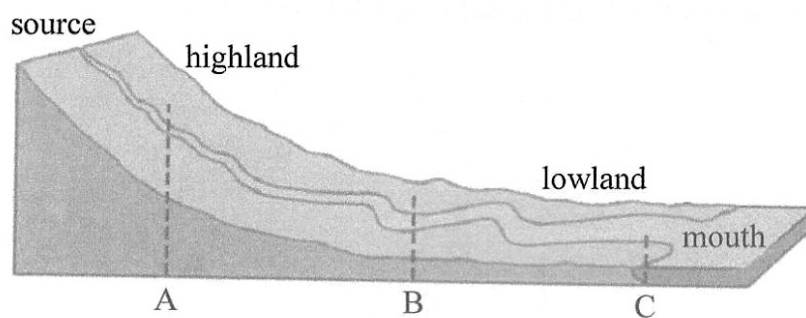


- (b) The diagram shows a flood hydrograph.



- (i) What is a flood hydrograph? [1]

- (ii) The diagram below shows the long profile of a river. Identify the river stages labelled A, B and C. [3]



A. _____

B. _____

C. _____

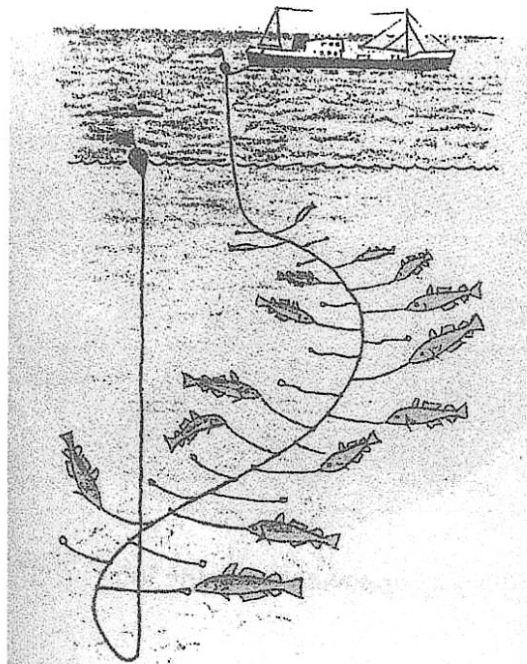
- (iii) What is the difference between the long profile and the cross profile of a river? [2]



(c) Explain **THREE** causes of flooding.

[6]

32. (a) With the use of the diagram, define the following terms:



(i) Long line fishing:

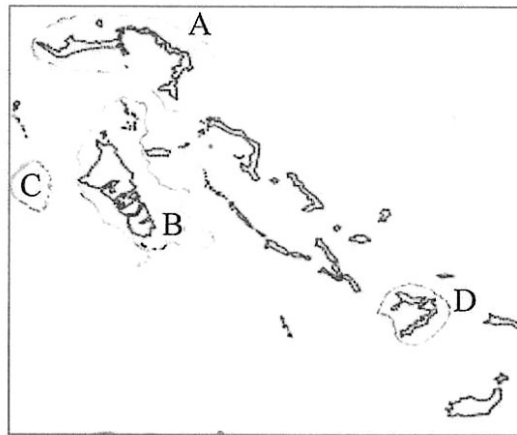
[1]



(ii) Eutrophication:

[1]

(b) The map below shows fishing grounds in The Bahamas.



Name any **TWO** of the fishing grounds labelled A, B, C and D.

[2]

A.	B.
C.	D.

(c) State **FOUR** factors which have caused overfishing to become a serious problem in recent years. [4]

(d) State **TWO** measures which governments have implemented to prevent overfishing. [2]



School Number	Candidate Number
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FOR EXAMINER'S USE ONLY	
1-30	
31a (i)	
31a (ii)	
31a (iii)	
31b (i)	
31b (ii)	
31b (iii)	
31c	
32a (i)	
32a (ii)	
32b	
32c	
32d	
TOTAL	



School Number	Candidate Number
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GEOGRAPHY

PAPER 2 5109/2

Wednesday **15 JUNE 2022** 9:00 A.M.–11:30 A.M.

Additional materials:
None

MINISTRY OF EDUCATION NATIONAL EXAMINATIONS

BAHAMAS GENERAL CERTIFICATE OF SECONDARY EDUCATION

INSTRUCTIONS TO SUPERVISORS

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 25 printed pages and 3 blank pages.

Question 1

The table below shows the population density for four Caribbean countries in 1986.

Country	Area (sq. km)	Population (000)	Density (per sq. km)
Aruba	193	68	352
Bahamas	13878	236	?
Barbados	430	254	590
Belize	22965	174	?

Table 1

- (a) Define the term 'population density'. [1]

- (b) Using Table 1, calculate the population density for

- (i) The Bahamas _____ [2]

- (ii) What are **TWO** things that affect population size? [2]

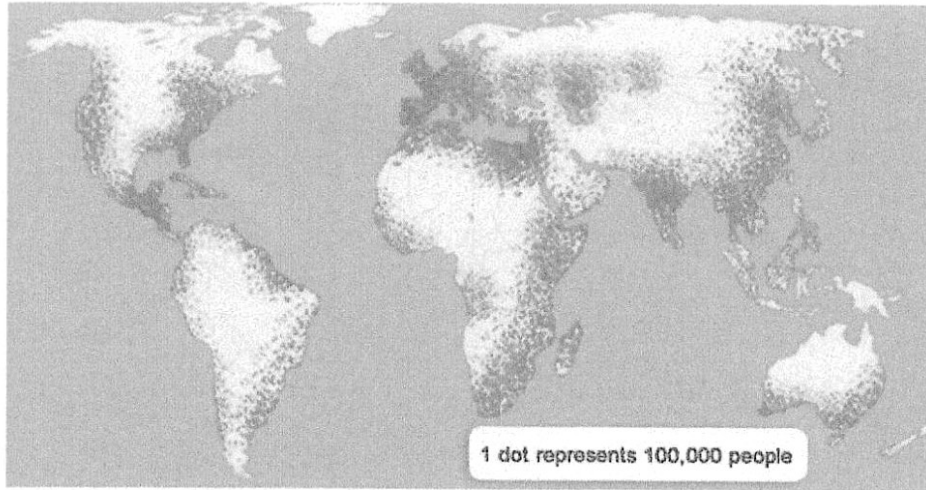
1. _____

2. _____



(c)

- (i) Using the map provided, describe the distribution of the world's population. [4]

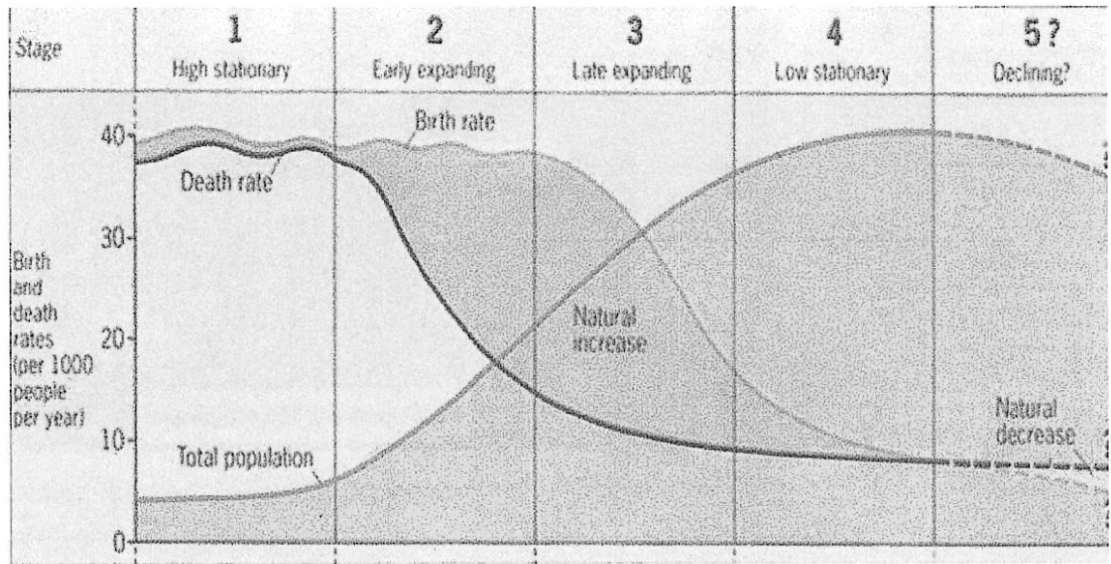


- (ii) Explain **TWO** factors that make a place sparsely populated. [4]

1.

2.

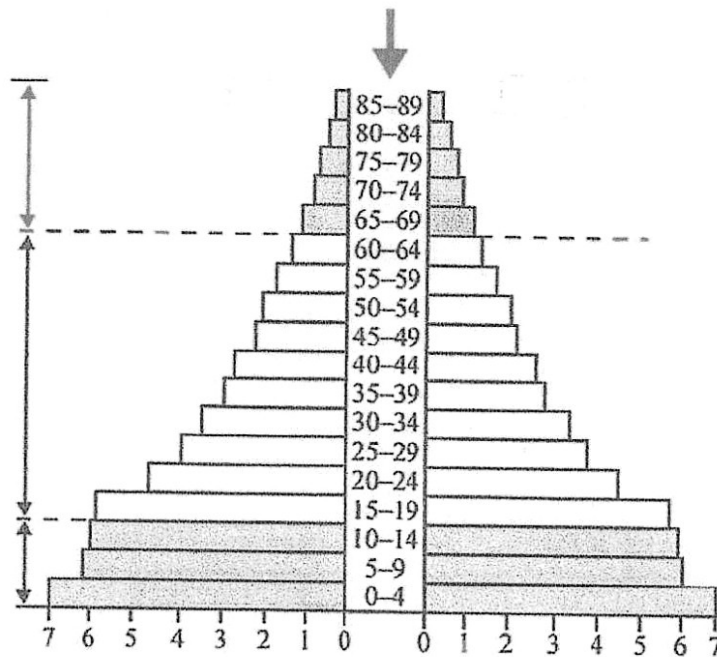
- (d) Study the demographic transition model below, describe **THREE** differences between the population in Stage 1 and Stage 3. [6]



1. _____
- _____
2. _____
- _____
3. _____
- _____

- (e) Complete the population pyramid by filling in the six features in the correct place on the diagram. [6]

Females	Working Population	Males
Children	Ages	Elderly

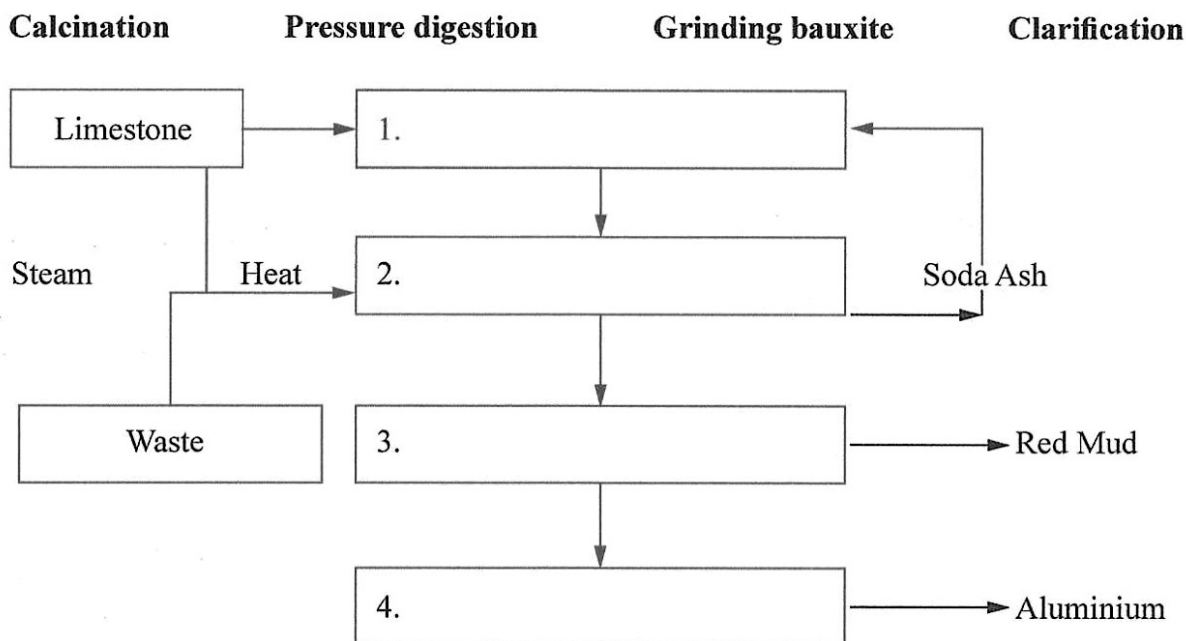


[TOTAL: 25 MARKS]

Question 2

The diagram below shows the processing involved in the production of aluminium from bauxite.

- (a) (i) Complete the diagram by putting the words below in the appropriate boxes. [4]



- (ii) What is 'red mud'? [1]

- (b) "The Caribbean produces 12% of the world's total bauxite."

- (i) Name the **TWO** main countries in the Caribbean which produce bauxite. [2]

1. _____ 2. _____

- (ii) What is meant by open cast mining? [2]



- (iii) Explain why aluminium is **NOT** produced in the Caribbean. [2]

- (c) Describe **TWO** environmental problems associated with the bauxite industry in the Caribbean. [4]

1.

2.

- (d) Explain why despite its problems, the bauxite industry is still considered an important industry in some countries. [4]



“Bauxite is the ore from which aluminium is made.”

(e) Describe **THREE** uses of aluminium.

[6]

1. _____

2. _____

3. _____

[TOTAL: 25 MARKS]



Question 3

Figure 2 shows two different volcanoes.

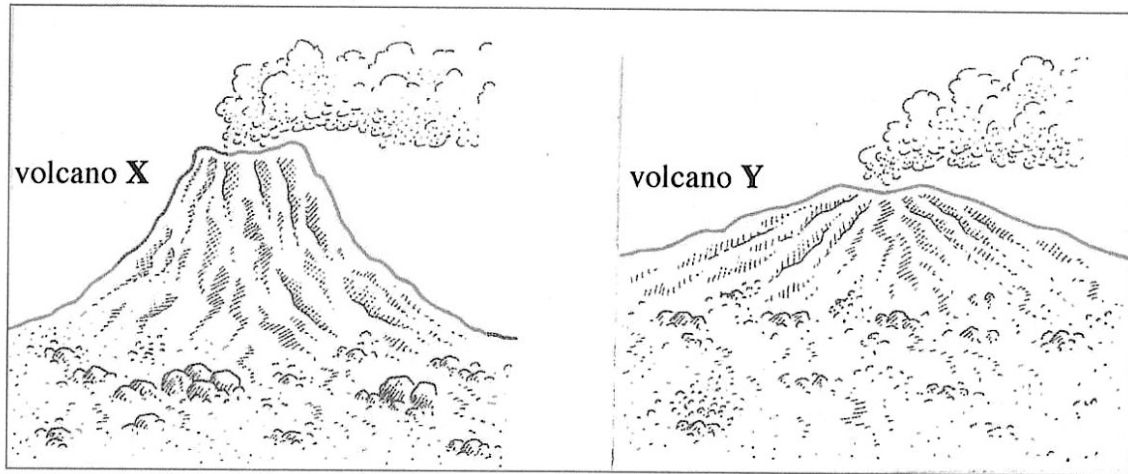


Figure 2

- (a) (i) Describe and explain the different shapes of volcano X and volcano Y. [4]

- (ii) Explain why some volcanoes are far away from plate boundaries. [2]



(b) Explain what is meant by the following terms. [3]

(i) Active volcano:

(ii) Dormant volcano:

(iii) Extinct volcano:

(c) (i) Name **ONE** material that is ejected from an erupting volcano. [1]

(ii) Explain the difference between a laccolith and a batholith. [2]

(d) Explain the effects that major volcanic eruptions can have on the following;

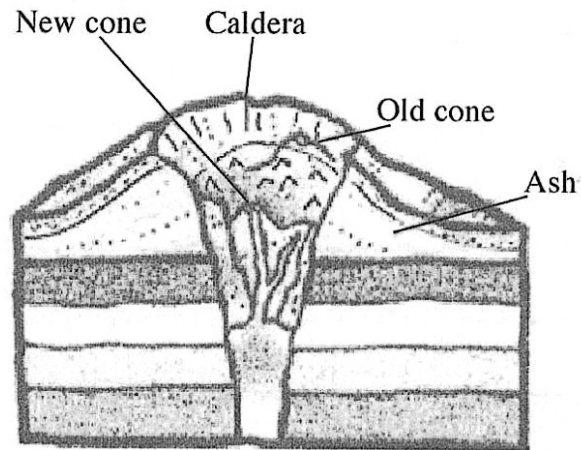
(i) The landscape. [2]

(ii) The local people. [2]

(iii) The weather. [2]



The diagram below shows the formation of a caldera.



- (e) (i) What is a caldera? [2]

- (ii) How is a caldera formed? [2]

- (f) State **THREE** measures that can be taken to reduce the impact of volcanic eruptions. [3]

1. _____
2. _____
3. _____

[TOTAL: 25 MARKS]

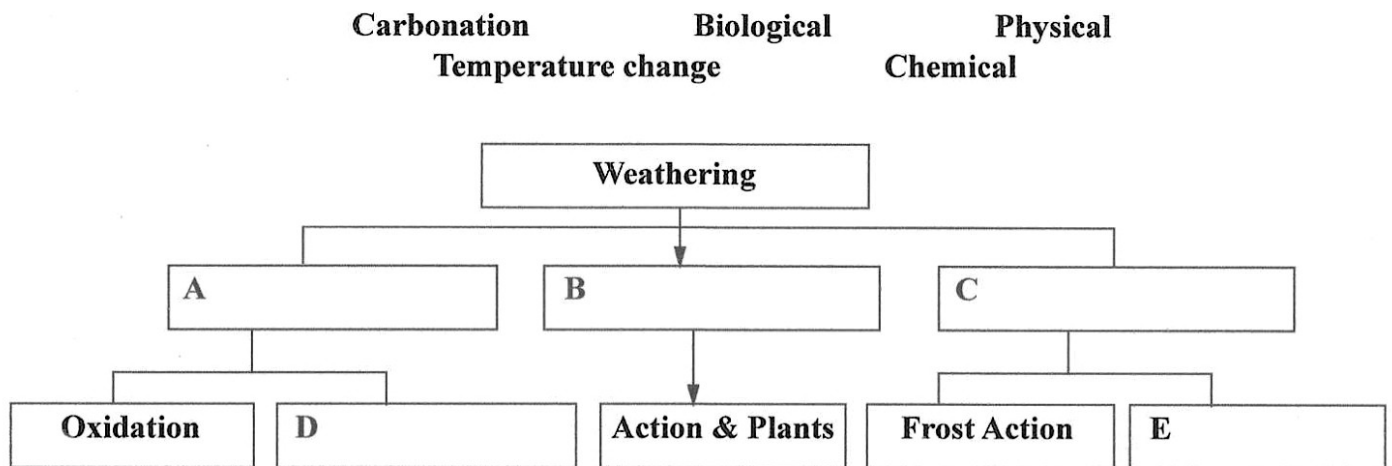


[Turn over]

Question 4

- (a) (i) Study the chart below which shows different types of weathering. What is weathering? [1]

- (ii) Complete the chart below by filling in the boxes with the correct words provided below. [5]



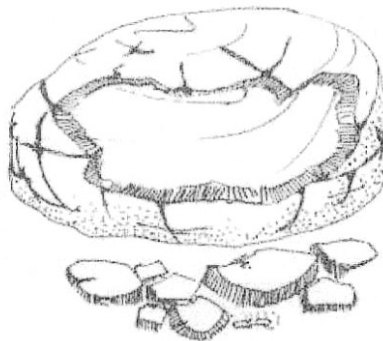
- (iii) Describe the process of oxidation. [3]



- (iv) Where are frost action processes most likely to occur and why? [3]

- (v) What is the most dominant type of weathering that occurs in The Bahamas? Explain why. [3]

- (b) The diagram below shows exfoliation of rocks. Explain how exfoliation in rocks occur. [4]



(c) (i) List **TWO** causes of mass wasting. [2]

1. _____ 2. _____

(ii) List **FOUR** effects of mass wasting on the physical environment. [4]

[TOTAL: 25 MARKS]



Question 5

Study the table below which shows information about the function in four settlements.

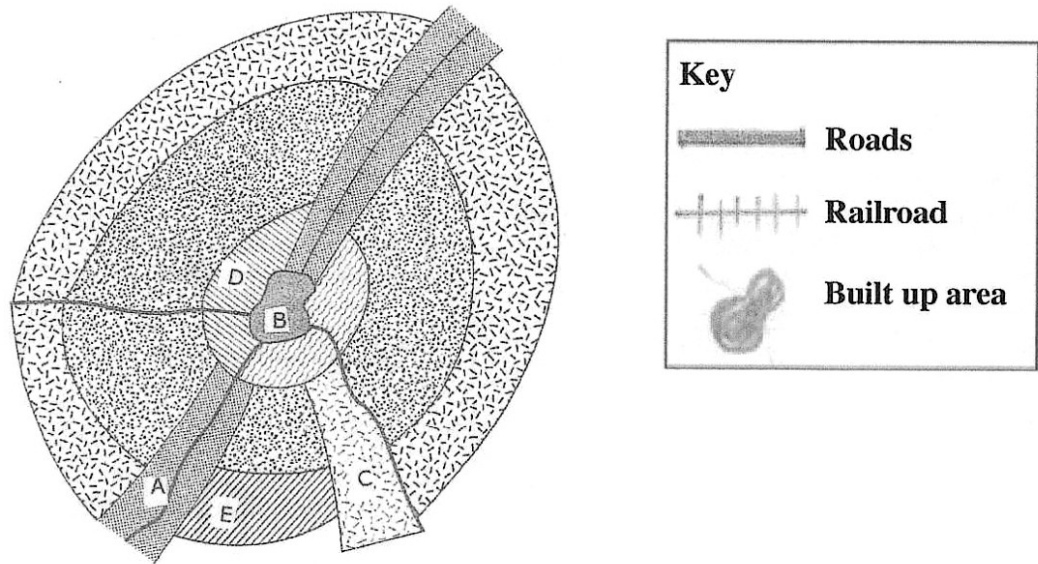
- (a) (i) Complete the table by identifying the type of settlement for **A, B, C and D**. [4]

Settlement	Type of Settlement	School	Other functions
A		No school	Telephone
B		A small primary school	Gas Station
C		Several primary schools and a secondary school	Bank
D		Many schools and 1 or 2 universities	Shopping centres

- (ii) What is meant by the term ‘sphere of influence’? [1]

- (iii) Which settlement in the table is likely to have the largest sphere of influence? [1]

- (b) Study the diagram below which shows an imaginary city in an MEDC.



- (i) Using the letters A–E in the diagram above, state which part of the city are most likely to have the following in an MEDC? [5]

Many shops and offices	
Houses and factories mixed together.	
Modern industrial zone	
Low income housing	
High income suburban houses	

- (ii) Which urban land use model does the city fit? [1]

- (c) What is a millionaire city? [1]

- (d) Describe **TWO** problems and **TWO** benefits of urbanisation. [8]

Problems

1. _____

2. _____

Benefits

1. _____

2. _____

- (e) Explain **TWO** advantages for people moving to the edges of cities. [4]

1. _____

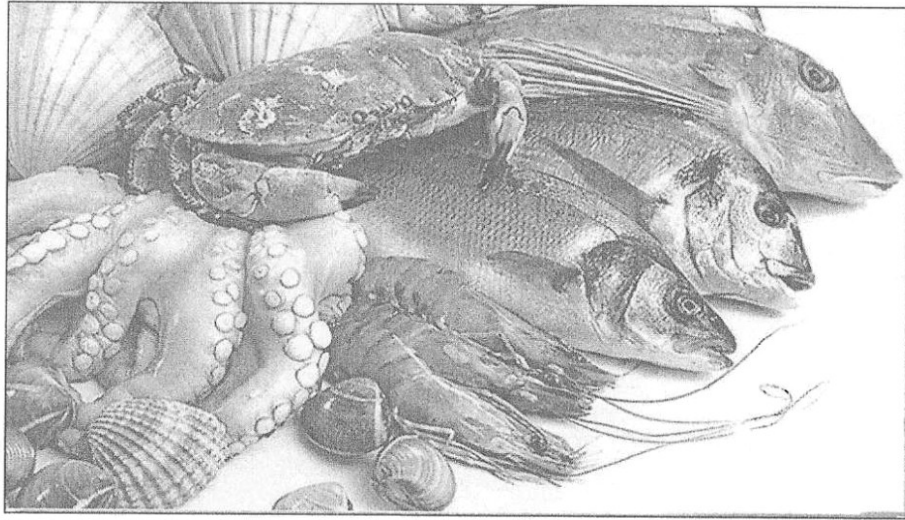
2. _____

[TOTAL: 25 MARKS]



Question 6

- (a) The photo below shows fisheries products.



- (i) Identify **THREE** marine species fished commercially in the Caribbean. [3]

1. _____

2. _____

3. _____

- (ii) State **TWO** species raised by mariculture in the Caribbean. [2]

1. _____ 2. _____

- (iii) Identify **TWO** arguments against fish farming. [2]



- (b) Describe **TWO** methods of fishing other than long line fishing used by Caribbean fishermen. [4]

1. _____

2. _____

- (c) Explain how **TWO** different physical factors have led to the growth of the fishing industry in the Caribbean. [4]

1. _____

2. _____

- (d) Explain **TWO** effects that economic and social development in the Caribbean has had on its fishing grounds. [4]

1. _____

2. _____

- (e) Suggest **THREE** ways in which the fishing industry in the Caribbean can be conserved. [6]

1. _____

2. _____

3. _____

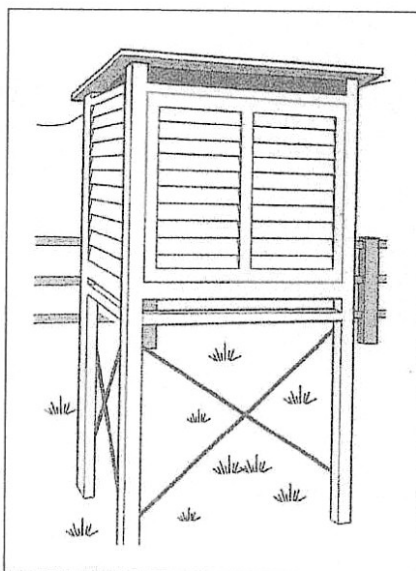
[TOTAL: 25 MARKS]

[Turn over



Question 7

Study the diagram below which shows a Stevenson Screen.



- (a) (i) Identify **TWO** instruments kept inside a Stevenson Screen from the list below; [2]

Rain gauge

anemometer

hygrometer

Min. – max. thermometer

wind vane

1. _____ 2. _____

- (ii) Describe **TWO** reasons why a Stevenson Screen should be placed in an open area. [2]

1. _____

2. _____



- (iii) Explain each feature of the Stevenson Screen.

[4]

Double roof:

Louvered sides:

Painted white:

Height above ground level:

- (b) Complete the table below by identifying the climate type based on the description. [4]

Description of Climate	Climatic Type
Warm summer, cool winters, maximum rainfall in winter	
Average summer temperatures, 85 °F clear cloudless skies; no cold season	
Three distinct seasons; hot wet, hot dry, cool dry	
Short cool summer and long cold winter, temperatures below freezing point for 2–4 months	

- (c) Study the table below which shows the average temperature and rainfall at weather station A.

	J	F	M	A	M	J	J	A	S	O	N	D	
Temperature	26	26	27	27	27	27	27	27	27	27	26	25	°C
Rainfall	22	16	17	18	18	17	17	22	18	21	25	26	mm

- (i) Calculate the annual range of temperature for station A. Show your calculation. [2]

Annual range temperature	Answer: _____ °C
--------------------------	------------------

- (ii) Calculate the total rainfall in millimetres. [1]

- (iii) Identify the type of climate experienced at station A and give **TWO** reasons for your choice. [3]

- (d) How will the temperature at high altitude differ from the temperature at lower altitude? [1]



- (e) What is a weather depression? [2]

- (f) Explain how any **TWO** factors other than altitude influences the temperatures of the islands of the Caribbean. [4]

[TOTAL: 25 MARKS]



Question 8

The photograph below shows garment manufacturing in Andros (Bahamas).



- (a) (i) Define the term manufacturing. [1]
- _____
- _____
- (ii) Identify **TWO** countries in the Caribbean that are major garment producers. [2]
1. _____ 2. _____
- (iii) List **TWO** raw materials that are needed for the garment industry. [2]
1. _____ 2. _____
- (b) "The manufacturing industry can be seen as a system of inputs, processes and outputs."
(GCSE Geography)
- State whether the following is an input or output. [2]
- (i) machinery: _____
- (ii) wooden chair: _____



- (c) Explain how garment manufacturing benefits the Caribbean region. [4]

- (d) Complete the table below by filling in **TWO** examples of goods manufactured in The Bahamas for each of the different types of manufacturing industries shown. [8]

Types of Manufacturing Industries	Goods manufactured in The Bahamas
Traditional Domestic Manufacturing	1.
	2.
Manufacturing for export using local raw material	1.
	2.
Import Substitution	1.
	2.
Offshore manufacturing/assembling of goods to another country	1.
	2.

- (e) Explain **THREE** factors other than raw materials which affect the location of manufacturing industries in a country. [6]

[TOTAL: 25 MARKS]



End]

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