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GEOGRAPHY

PAPER 3 5109/3

Thursday **3 JUNE 2010** 9.00 – 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

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 21 printed pages and 3 blank pages.



1. Study the Ordnance Survey Map Extract 1:25,000 of Pointe Michel, Dominica and then answer the questions which follow.

- (a) (i) What is the straight line distance, to the nearest $\frac{1}{4}$ mile, from the Police Station (676834) to the Trigonometric Station (66812) near Scott's Head?

_____ [2]

- (ii) What is the compass direction of the church (675835) from the Trigonometric Station (691815)?

_____ [1]

- (iii) List **TWO** services provided in the community of Pointe Michel.

_____ [2]

- (iv) Which coastal landform dominates the southern coast of the Map Extract?

_____ [1]

- (b) (i) Describe the general course of the road in square 6784 and suggest what may have influenced it.

_____ [3]

- (ii) What evidence is there to suggest that the area is volcanic?

_____ [2]

- (iii) Give **TWO** methods, other than triangulation stations, used to show height on the map.

[2]

- (c) (i) Describe the settlement of Soufriere.

[3]

- (ii) Describe the type of drainage system shown in square 6885.

[2]

- (d) (i) State **TWO** physical characteristics of the river (Ravine Sibouli) in square 6785 and 6885.

[2]

- (ii) Give the 6 figure grid references for:

(a) The Post Office in Point Michel _____

(b) The Trigonometric station at Pointe Guignard _____

[2]

- (iii) Scott's Head is an island linked to the mainland by a prominent coastal feature. Name the feature.

_____ [1]

- (iv) Describe the formation of this feature.

_____ [2]

2. (a) Study Photo 1 showing the Cascarilla bark being processed.

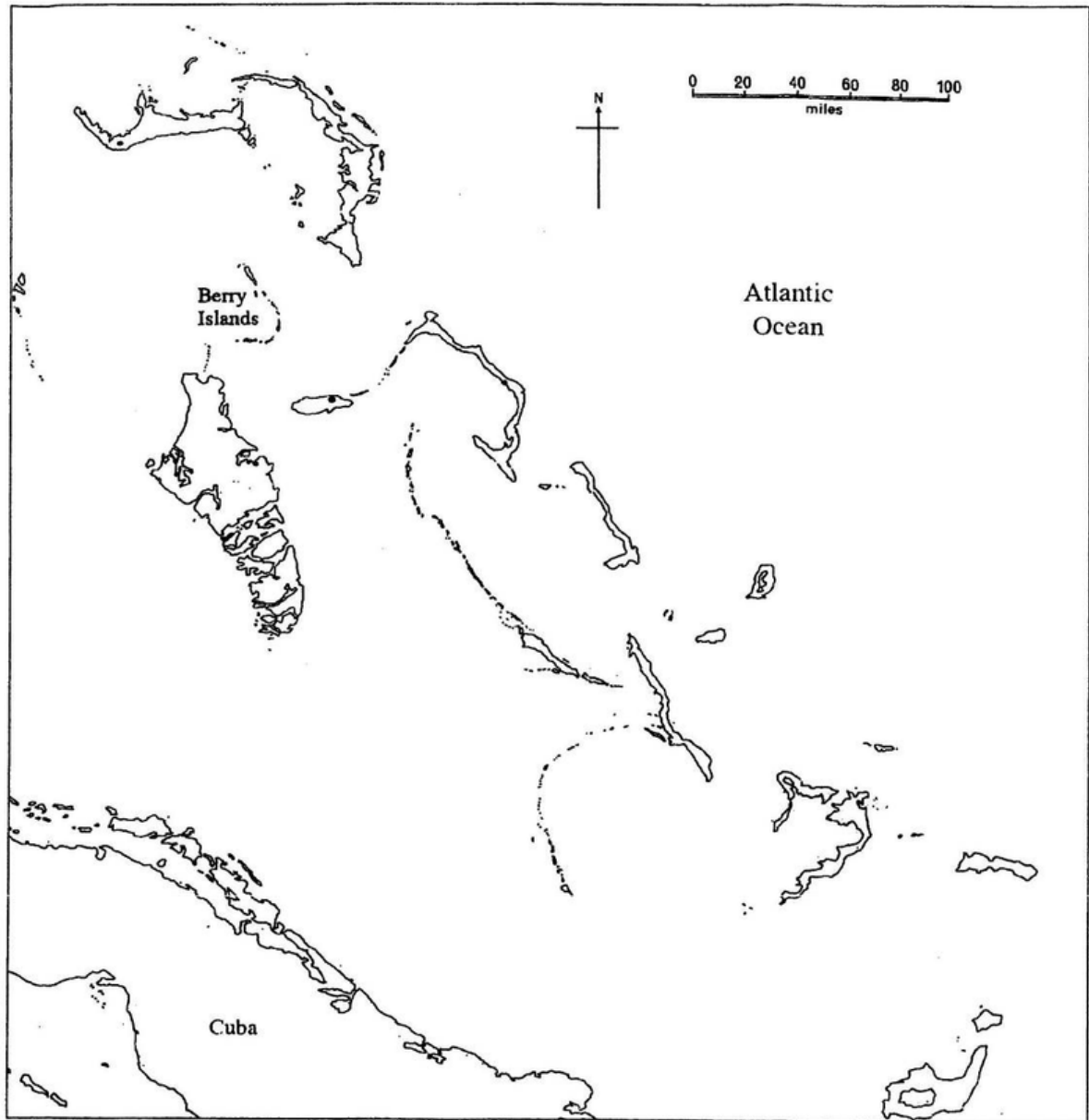


Photo 1

- (i) Name the vegetation group of The Bahamas to which the Cascarilla bark belongs.

_____ [1]

Study Figure 1 of the Map of The Bahamas.



(ii) On the map, locate and name the islands Cat Island and Acklins. [2]

(iii) Explain the process of extracting juice from the bark.

[4]

- (b) (i) Name **THREE** countries to which the Cascarilla bark is exported.

[3]

- (ii) Explain **THREE** benefits of the Cascarilla tree to local residents.

[6]

- (iii) Why is there a difference in the appearance of the Coppice in the Southern and Northern islands of The Bahamas?

[4]

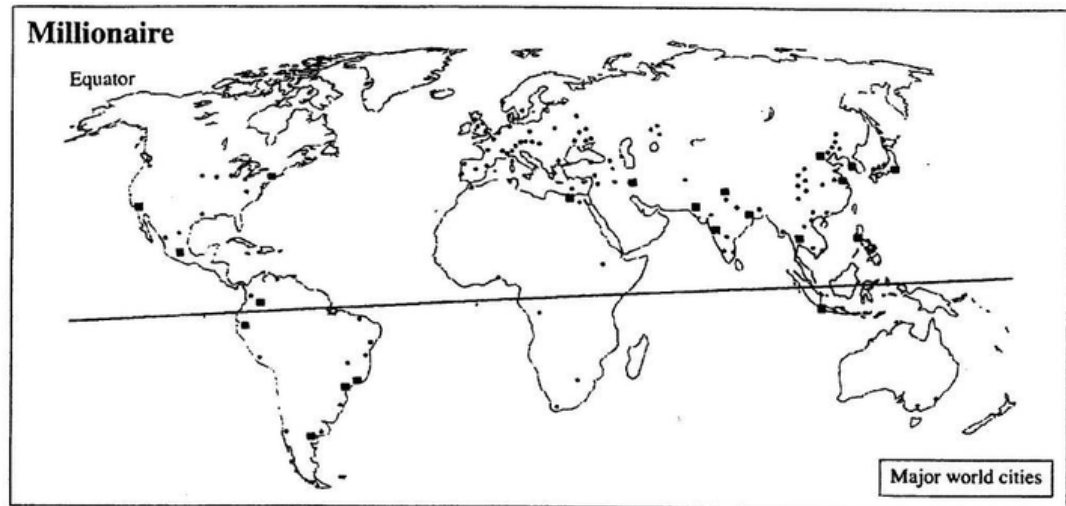
- (c) (i) List **FOUR** other species of the Coppice besides the Cascarilla tree.

[4]

- (ii) What is secondary vegetation?

[1]

3. Figure 2 shows the distribution of major world cities. In recent years there has been a rapid population growth in cities around the World. Figure 2 (The World Map) below shows examples of millionaire cities.



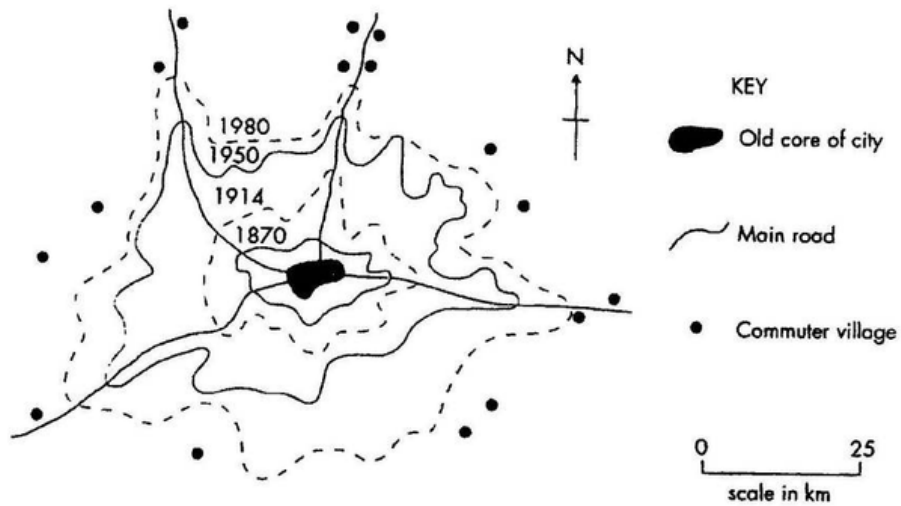
- (a) (i) Define the terms '**urbanization**' and '**millionaire cities**'

[2]

- (ii) Give **THREE** examples of millionaire cities.

[3]

- (b) Figure 3 is a map showing the changing boundary of a city in a MEDC.



- (i) What process of urbanization is illustrated on the map?

[1]

- (ii) Describe the changes in the shape and extent of the city over the period shown on the map.

[5]

- (iii) During which period did the greatest change take place?

[1]

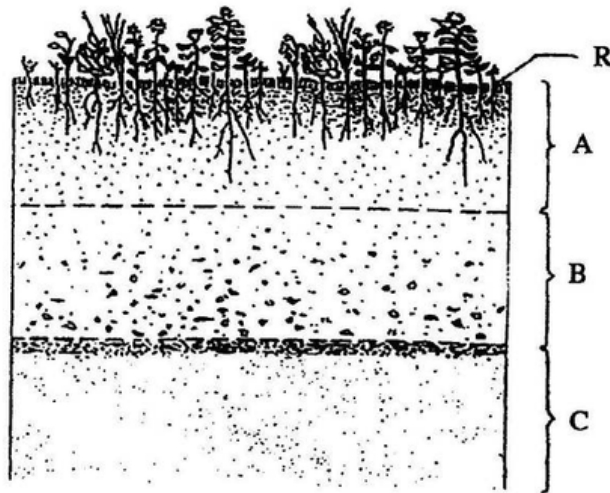
- (iv) Suggest possible relationships between the city and the commuter villages shown on Figure 3.

[3]

- (c) Describe **THREE** problems resulting from rapid urban growth in MEDC and give **FOUR** solutions.

[10]

4. (a) (i) Figure 4 shows a Soil Profile labelled R to C. What does each letter represent?



R _____ A _____
B _____ C _____ [4]

- (ii) What is a soil profile?

_____ [2]

- (iii) Name **THREE** factors which influence the formation of soils.

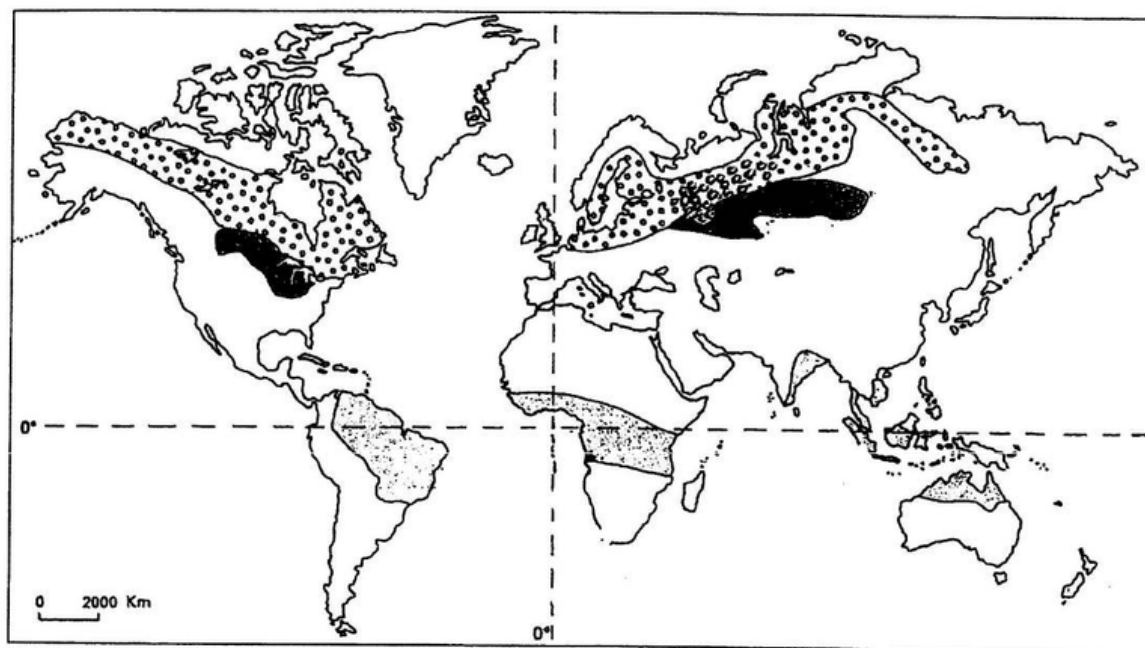
_____ [3]

- (b) Complete the chart below filling in the correct information about Bahamian soils.

Name of Soil Type	Location (one island)	Importance (value)
Organic		
Residual		
Sedimentary		

[6]

- (c) The Map below shows the World distribution of **THREE** major soil types (Chernozems, Latasols, Podzols).



- (i) On the shaded parts of the map, write the name of each soil type. [3]
- (ii) Explain the economic importance of Chernozem soils to places where they are located.

[2]

- (d) (i) Name **TWO** Caribbean countries where human activities have led to soil erosion.

_____ [2]

_____ [2]

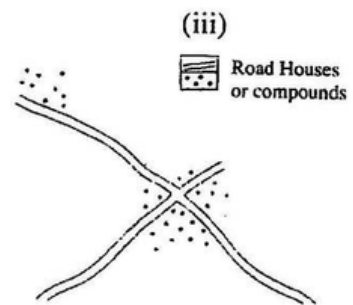
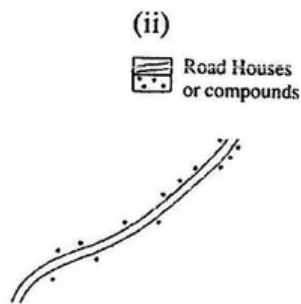
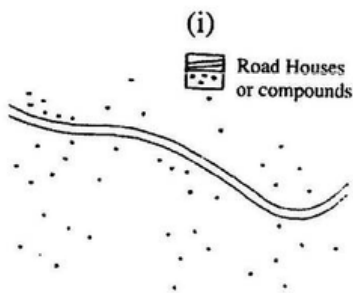
- (ii) What is meant by the term soil conservation?

_____ [1]

- (iii) State **TWO** methods of soil conservation.

_____ [2]

5. (a) What type of settlement patterns are illustrated below?



(i) _____ (ii) _____ (iii) _____

[3]

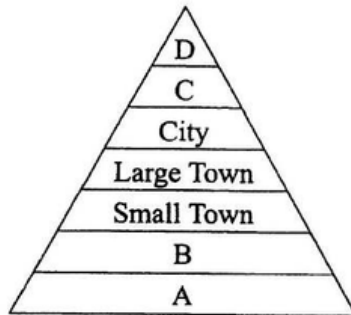
- (iv) State **TWO** advantages of living in settlement 5 (a) (iii).

[2]

- (b) (i) What is meant by the term 'settlement hierarchy'?

[1]

- (ii) In the table fill in the names of the settlement categories missing from the triangular graph.



A	
B	
C	
D	

[4]

- (iii) Give **THREE** types of services which are likely to be found in a town but not in a hamlet.

[3]

- (iv) Which settlement will have the least population?

[1]

- (v) What is the major challenge that limits a hamlet from having a sphere of influence?

[1]

- (c) (i) List **FOUR** characteristics of the Central Business District.

[4]

- (ii) Explain **TWO** advantages of Outlying Business Districts over Central Business Districts.

[4]

- (iii) Explain **ONE** function performed by cities.

[2]

6. (a) (i) List **THREE** basic characteristics of LEDs.

[3]

- (ii) State **TWO** differences between LED and EDC.

[4]

- (b) Table 1 illustrates percentages of persons employed in different industries.

Country	Primary		Secondary		Tertiary	
	1960	1980	1960	1980	1960	1980
Brazil	49	30	17	24	34	46
Burundi	89	–	4	5	7	11
Ethiopia	86	80	6	7	8	13
S. Korea	58	34	13	29	29	37
UK	3	2	46	37	51	61
USA	5	2	36	32	59	66

- (i) In which industrial sector in South Korea was there a percentage decrease between 1960 and 1980?

[1]

- (ii) In which industrial sector in the UK was there a percentage increase between 1960 and 1980?

[1]

- (iii) For each of the following, identify **ONE** country from Table 1 as an example of

LEDC _____

NIC _____

MED _____ [3]

- (iv) Explain **TWO** ways in which governments encourage the development of manufacturing industries.

_____ [4]

- (c) **Construct** a bar graph of exports using the following data from a MEDC.

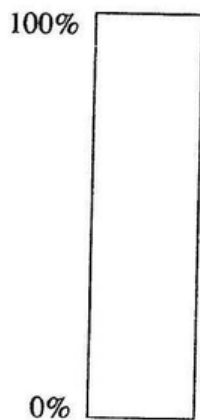
Primary products 13 %

Fuels and minerals 2 %

Textiles & clothing 35 %

Machinery 25 %

Other manufactured goods 25 %



[7]

7. What is the difference between a primary and secondary industry?

(a) (i) _____

_____ [2]

- (ii) The following list shows some Bahamian manufactured products.

Boat building Pharmaceuticals Pepper sauce Bleach

In the table provided, classify the activity under the appropriate industry.

Traditional & Domestic	Export	Import Substitution	Offshore

- (b) State **TWO** advantages and **TWO** disadvantages of solar power.

[4]

- (c) (i) One of the World's largest salt pans is found in the Southern Bahamas. On which island is it found?

[1]

- (ii) Explain **TWO** geographical reasons for the success of Morton Salt Company.

[2]

(iii) What **THREE** weather elements affect the production of salt?

[3]

(d) (i) Explain the way in which salt is produced in The Bahamas.

[4]

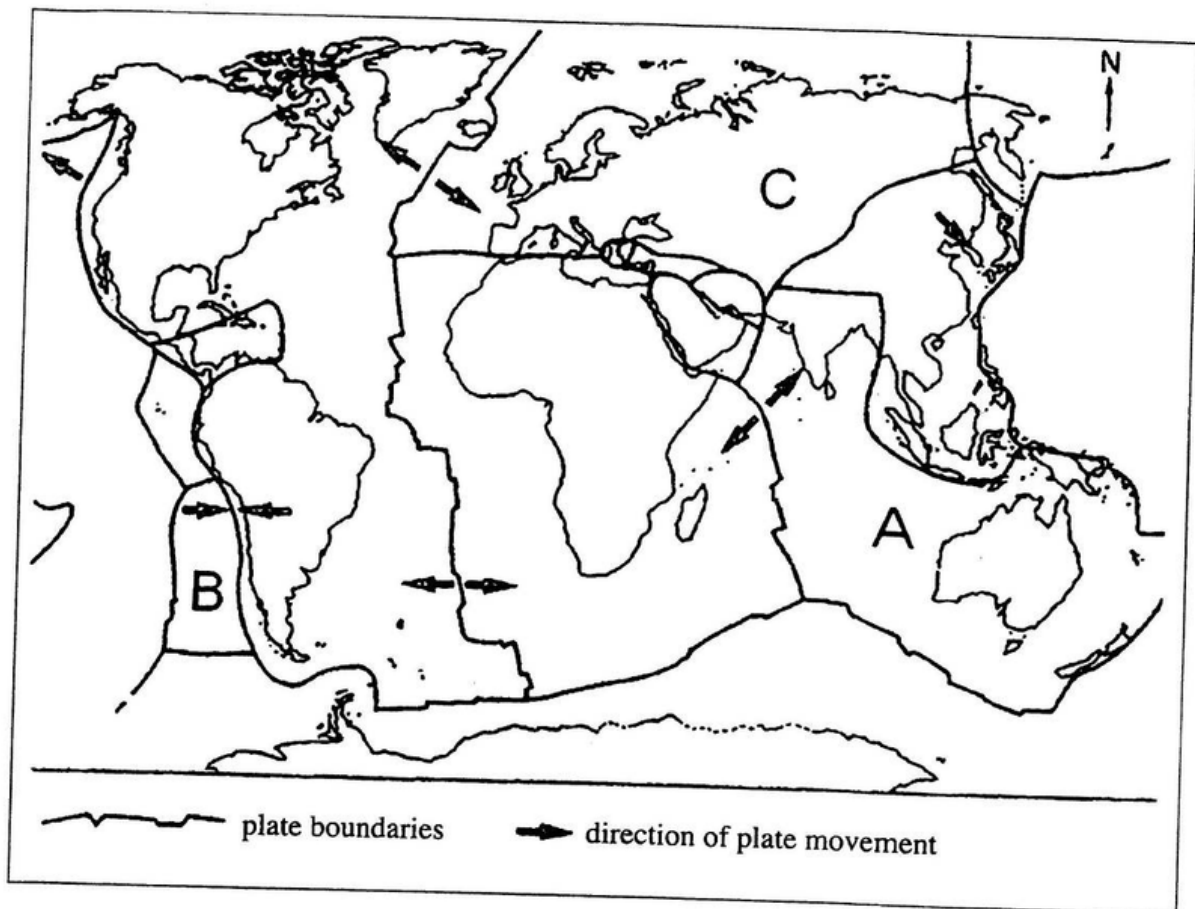
(ii) List **TWO** islands of the Bahamas that extract salt from sea water.

[2]

(iii) List **TWO** uses of salt.

[2]

8. (a) The Map illustrates plate boundaries.



- (i) Name the plates labelled: A _____
B _____
C _____ [3]

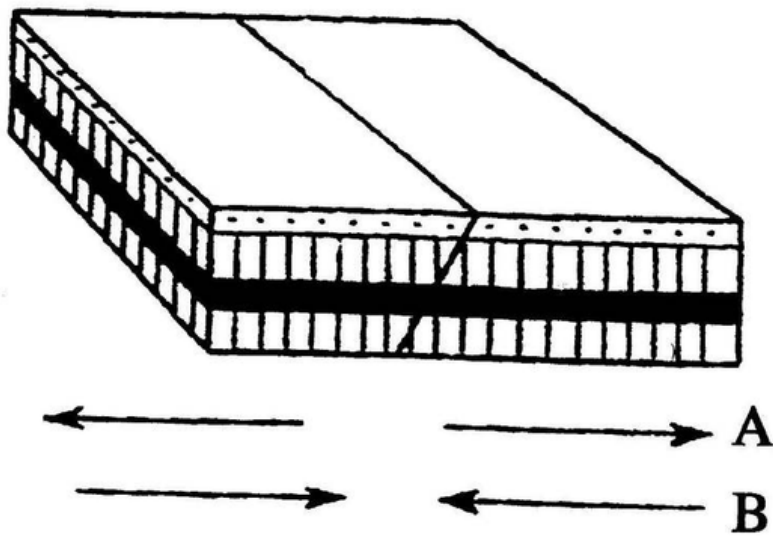
- (ii) List **THREE** types of plate boundary.

_____ [2]

- (iii) Explain why plate movements occur.

[2]

- (b) The diagram shows two possible ways in which earth movements may occur.



- (i) Name the forces causing the movement A and B.

A _____

B _____ [2]

- (ii) Briefly describe the results of **ONE** of the forces with an example.

[3]

- (c) (i) In the space below draw and label a diagram of a simple volcano.

[4]

- (ii) Explain **FOUR** ways in which volcanoes are beneficial to humans.

[8]

- (iv) What is the study of volcanoes called?

[1]