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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 ¼ mile, from the Police Station (676834) to the Trigonometric Station (66812) near Scott's Head?

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

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

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

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

(ii) What evidence is there to suggest that the area is volcanic?
(iii) Give TWO methods, other than triangulation stations, used to show height on the map.

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

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

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

(ii) Give the 6 figure grid references for:

(a) The Post Office in Point Michel

(b) The Trigonometric station at Pointe Guignard
(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?

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'

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

(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.

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________________________________________________________________________

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________________________________________________________________________

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________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

[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.

<table>
<thead>
<tr>
<th>Name of Soil Type</th>
<th>Location (one island)</th>
<th>Importance (value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residual</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sedimentary</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(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.

(ii) Explain the economic importance of Chernozem soils to places where they are located.
(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.

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[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.

<table>
<thead>
<tr>
<th>Country</th>
<th>Primary</th>
<th>Secondary</th>
<th>Tertiary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brazil</td>
<td>49</td>
<td>30</td>
<td>17</td>
</tr>
<tr>
<td>Burundi</td>
<td>89</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Ethiopia</td>
<td>86</td>
<td>80</td>
<td>6</td>
</tr>
<tr>
<td>S. Korea</td>
<td>58</td>
<td>34</td>
<td>13</td>
</tr>
<tr>
<td>UK</td>
<td>3</td>
<td>2</td>
<td>46</td>
</tr>
<tr>
<td>USA</td>
<td>5</td>
<td>2</td>
<td>36</td>
</tr>
</tbody>
</table>

(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.

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

- Primary products 13%
- Textiles & clothing 35%
- Fuels and minerals 2%
- Machinery 25%
- Other manufactured goods 25%

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

(a) (i) ____________________________________________

___________________________________________ [2]
(ii) The following list shows some Bahamian manufactured products.

<table>
<thead>
<tr>
<th>Boat building</th>
<th>Pharmaceuticals</th>
<th>Pepper sauce</th>
<th>Bleach</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Traditional &amp; Domestic</th>
<th>Export</th>
<th>Import Substitution</th>
<th>Offshore</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

[4]  

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

<table>
<thead>
<tr>
<th>Island</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

[1]  

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

<table>
<thead>
<tr>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

[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.

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

(iii) What is the study of volcanoes called?

[4]

[8]

[1]
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