NAMIBIA SENIOR SECONDARY CERTIFICATE

GEOGRAPHY ADVANCED SUBSIDIARY LEVEL 8233/2

PAPER 2 3 hours

Marks 100 **2022**

Additional Materials: 1:50 000 Survey Map Extract
Answer Book
Non-programmable calculator
Ruler

INSTRUCTIONS AND INFORMATION TO CANDIDATES

- Write your answers and working in the Answer Book provided.
- Write your Centre Number, Candidate Number and Name on the spaces provided on the Answer Book.
- Write in dark blue or black pen.
- You may use a soft pencil for any diagrams or graphs.
- Do not use correction fluid.

- Answer **four** questions. **One** each from Section A, B and C. **Section D is compulsory.**
- All working must be clearly shown.
- Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.
- The number of marks is given in brackets [ ] at the end of each question or part question.
- You may use a non-programmable calculator.

This document consists of **5** printed pages and **3** blank pages.

Republic of Namibia
MINISTRY OF EDUCATION, ARTS AND CULTURE

SECTION A: PHYSICAL GEOGRAPHY

Answer **one** question from **Section A**.

1 **(a)** **(i)** Define the terms *interception* and *stemflow*. [4]

(ii) What is meant by the term *water balance* in a drainage basin? [3]

(b) Using simple sketch hydrographs, explain how a change in land use in a drainage basin from woodland to urbanisation may affect river discharge. [8]

(c) How can the abstraction and the storage of water by humans affect flows and stores within a drainage basin? [10]

[25]

2 **(a)** **(i)** What is meant by the term *urban heat island*? [4]

(ii) Briefly describe **one** effect that atmospheric pollution may have upon urban climates. [3]

(b) With the use of diagrams, explain how the earth's atmosphere is heated by solar radiation. [8]

(c) Explain how winds can influence the distribution of global rainfall and vegetation growth. [10]

[25]

SECTION B: ECONOMIC ACTIVITIES AND THE USE OF RESOURCES

Answer **one** question from **Section B**.

3 **(a)** Given that coal is heavy, wasteful and polluting, suggest reasons for its continued importance globally as a source of energy. [7]

(b) Outline, and suggest reasons for, recent changes in the consumption of fossil fuels and renewable energy. [8]

(c) Assess the environmental impacts associated with the development of **two** or **more** renewable energy resources. [10]

[25]

4 **(a)** Describe and explain the factors that influence the supply of water. [7]

(b) With the help of **one** or **two** examples, describe and explain how water quality may be improved. [8]

(c) Why do attempts to prevent water pollution often fail? [10]

[25]

SECTION C: HUMAN GEOGRAPHY

Answer **one** question from **Section C**.

5 **(a)** **(i)** Give the meaning of the term *international migration*. [2]

(ii) Describe briefly the character of **one** example of international migration you have studied. [5]

(b) Describe the main political barriers to international migration. [8]

(c) To what extent do you agree with the statement that economic migration is usually beneficial to both sending and receiving countries? [10]

[25]

6 **(a)** **(i)** Give **two** reasons for the intense competition for land near the centres of towns and cities. [2]

(ii) What evidence may be seen in the urban landscape of this competition for central space? [5]

(b) Using examples, describe the attempts that have been made in High Income Countries (HICs) to control the spread of urban areas. [8]

(c) Choose **one** rural settlement or rural area which is undergoing change. How positive are the changes that have taken place there recently? [10]

[25]

SECTION D: THE INTERPRETATION OF TOPOGRAPHICAL MAPS

This question is compulsory.

7 Study the Topographical map extract of Marble Hall, South Africa.
The scale of the map is 1:50 000.

(a) **(i)** Name the feature found at 24º 52' 58" S and 29º 16' 08" E. [1]

(ii) Give the location of the Police Station in Leeufontein (southeastern corner of the map). [2]

(b) Give the direction from the railway station to the clinic in Marble Hall. [1]

(c) **(i)** Measure the length of the National Route N11 in the south-western part of the map.
You will gain credit for your calculations. [3]

(ii) Calculate the gradient from spot height 1048 (24º 51' 50" S and 29º 16' 50" E) to spot height 864 (24º 52' 22" S and 29º 19' 50" E).
You will gain credit for your calculations. [4]

(d) Describe the site and situation of the fishing research centre (Laeveldse Vissersnavorsingstasie) found at 24º 53' 15" S and 29º 21' 20" E on the map. [4]

(e) Describe the main physical features and drainage patterns along the Olifantsrivier. [5]

(f) Describe and explain the occurrence of agriculture shown on the map. [5]

[25]

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