EXAMINATIONS COUNCIL OF ESWATINI
Junior Certificate Examination

CANDIDATE NAME								
CENTRE NUMBER					CANDIDATE NUMBER			

GEOGRAPHY **527/02**

Paper 2 Geographical skills **October/November 2025**

2 hours

Candidates answer on the question paper.

Additional materials: Calculator
Ruler
Plain paper
Pencil
Protractor
Set square
1: 50 000 survey map extract enclosed with this paper.

READ THESE INSTRUCTIONS FIRST

Write your name, centre number and candidate number in the spaces provided.
Write in **blue** or **black** pen.
You may use a soft pencil for any diagrams, graphs, tables or rough working.
Do not use staples, paper clips, highlighters, glue or correction fluid.

Answer **all** questions.
Sketch maps and diagrams should be drawn wherever they serve to illustrate an answer.

The number of marks is given in brackets [ ] at the end of each question or part question.

For Examiner's Use	
Question 1	
Question 2	
Question 3	
Question 4	
Total	

This document consists of **12** printed pages.

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SECTION A – MAP READING AND INTERPRETATION

Answer **all** questions in the spaces provided.

1 Study the map extract of Marondera (Zimbabwe). The scale is 1: 50 000.

Fig. 1 shows the positions of some features in the south west of the map extract.

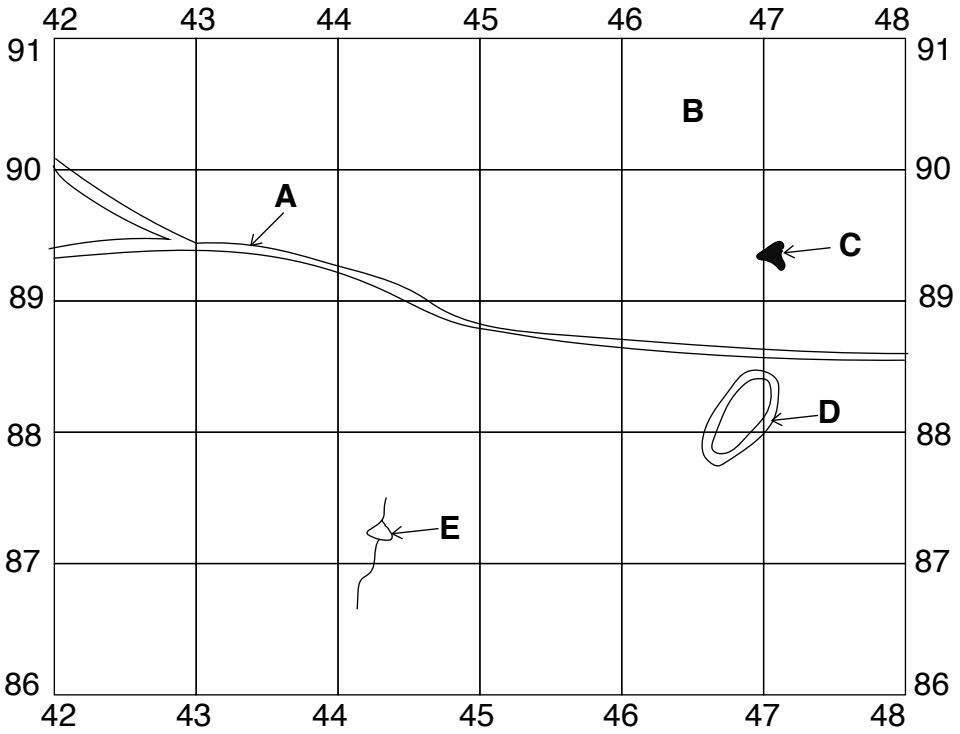

Fig. 1

(a) Using the map extract, identify the following features shown on Fig. 1:

(i) type of road **A**;

……[1]

(ii) type of vegetation at **B** (4690);

……[1]

(iii) feature **C**;

……[1]

(iv) land use at **D**;

……[1]

(v) feature **E**.

……[1]

(b) **(i)** Name any **one** type of scale shown on the map.

……[1]

(ii) Name the feature located at grid reference 530836.

……[1]

(iii) What is the height of the trigonometrical station found at grid square 5500?

……[1]

(c) Study the course of the Nyakambiri river.

(i) What is the general direction of flow of the Nyakambiri river between easting 51 and easting 59?

……[1]

(ii) Name **two** drainage patterns along the Nyakambiri river and its tributaries.

1……

2……[2]

(d) Measure the bearing of the Trigonometrical station 313/T (grid square 5585) from the Trigonometrical station 326/T (grid square 5186).

……[1]

(e) **(i)** Measure the distance in metres along the narrow tarred road from 547030 to 534980.

……[1]

(iii) The narrow tarred road at 547030 is about 1580m high and at 534980 it is about 1600m high. Calculate the gradient along this road.

……

……

……

……[2]

(f) **(i)** Name the settlement pattern found at grid square 5698.

……[1]

(ii) List **three** services provided in the town of Marondera.

1……

2……

3……[3]

(iii) State the main human activity carried out in the northern part of the map.

……[1]

[Total: 20 marks]

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SECTION B - RESEARCH SKILLS

Answer **all** questions in the space provided.

2 **(a)** A group of students investigated the Central Business District (CBD) of Mbabane. The students observed and measured the height and width of the buildings. They decided to test the following hypothesis: "*The height and width of the buildings decrease towards the edge of the CBD*". They decided to use the systematic sampling method to collect data.

(i) Define *systematic sampling*.

……[1]

(ii) State **two** advantages of the systematic sampling method.

1……

2……[2]

(b) The students recorded the results of their investigation in Table 1.

Table1

Site	**A**	**B**	**C**	**D**	**E**	**F**
Average height (storeys)	8	7	6	5	4	3
Average width (paces)	16	14	12	10	8	6

(i) Using evidence from Table 1, describe how the students measured:

Height ……

Width ……[2]

(ii) Using information from Table 1, complete the bar graph **Fig. 2** for the average height of Sites **A** and **C**. [2]

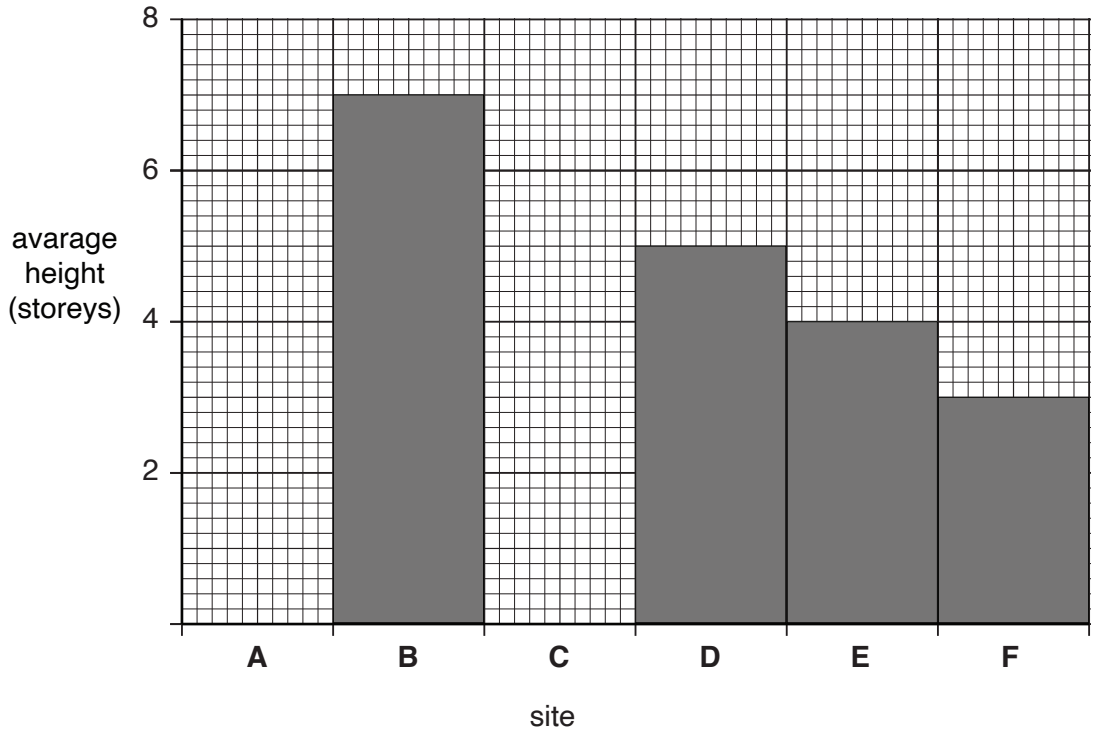

Fig. 2

(iii) Write a conclusion to the hypothesis, "*The height and width of buildings decrease towards the edge of the CBD*". Use evidence from Table 1 and Fig. 2.

……

……

……

……

……

……[3]

[Total: 10 marks]

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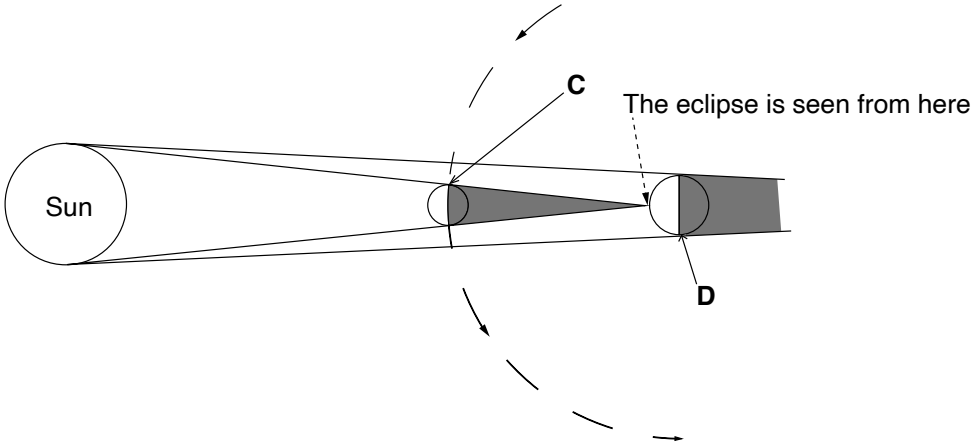
SECTION C – PHYSICAL GEOGRAPHY

Answer **all** questions in the spaces provided.

3 **(a)** Study Fig. 3, which shows two types of eclipses, **A** and **B**.

Eclipse A



Eclipse B

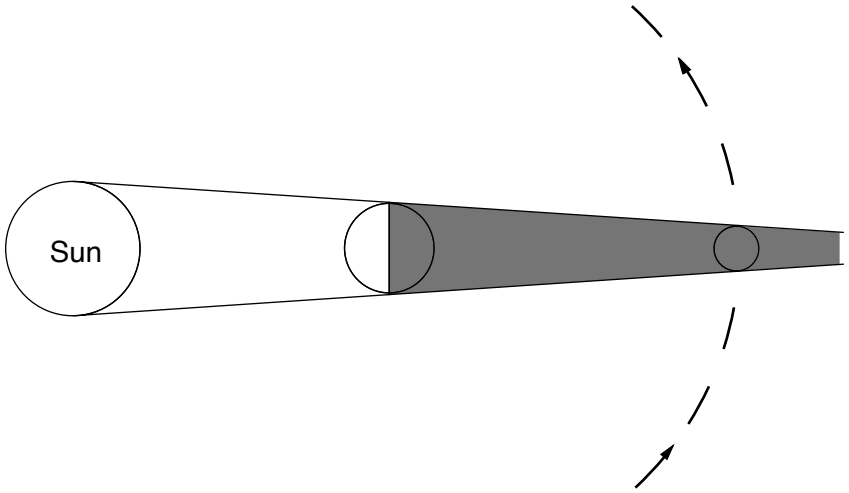


Fig. 3

(i) Identify eclipses **A** and **B**.

A……

B…… [2]

(ii) State the phase of the moon at which each eclipse occurs.

A……

B…… [2]

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(iii) Name the celestial bodies shown as **C** and **D** in eclipse **A**.

C……

D…… [2]

(b) Study Fig. 4, which shows a geographical movement of a celestial body around the earth.

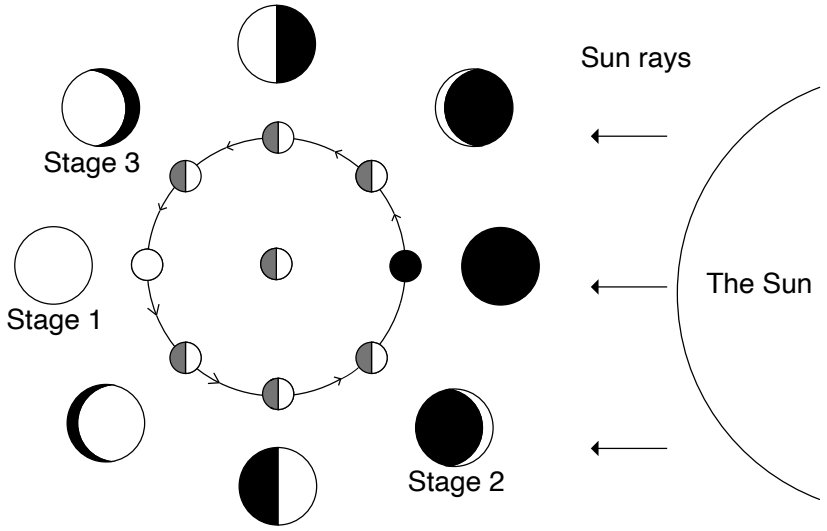

Fig. 4

(i) Name the movement shown in Fig. 4.

……[1]

(ii) Using Fig. 4, name the stages labelled **1**, **2**, and **3**.

Stage 1……

Stage 2……

Stage 3……[3]

(c) Study Fig. 5, which shows two samples of a river load, **E** and **F**, taken at different locations along a river.

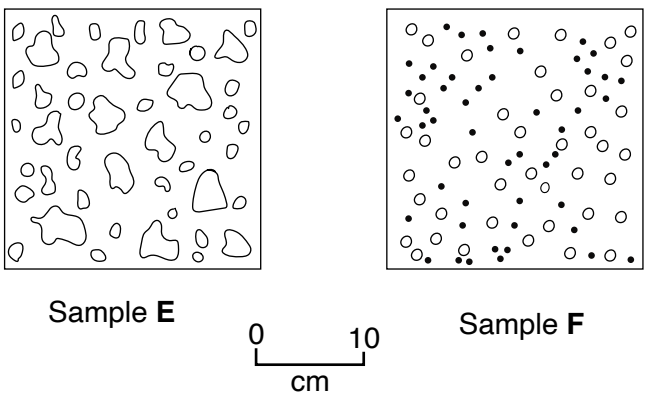

Fig. 5

(i) Define the term *river load*.

……[1]

(ii) Describe the shape of the river load in samples **E** and **F**.

E.....

F..... [2]

(iii) State **two** ways in which the load of the river may be transported.

1.....

2..... [2]

(d) Study Fig. 6, which shows changes in world temperature between 1880 and 2020.

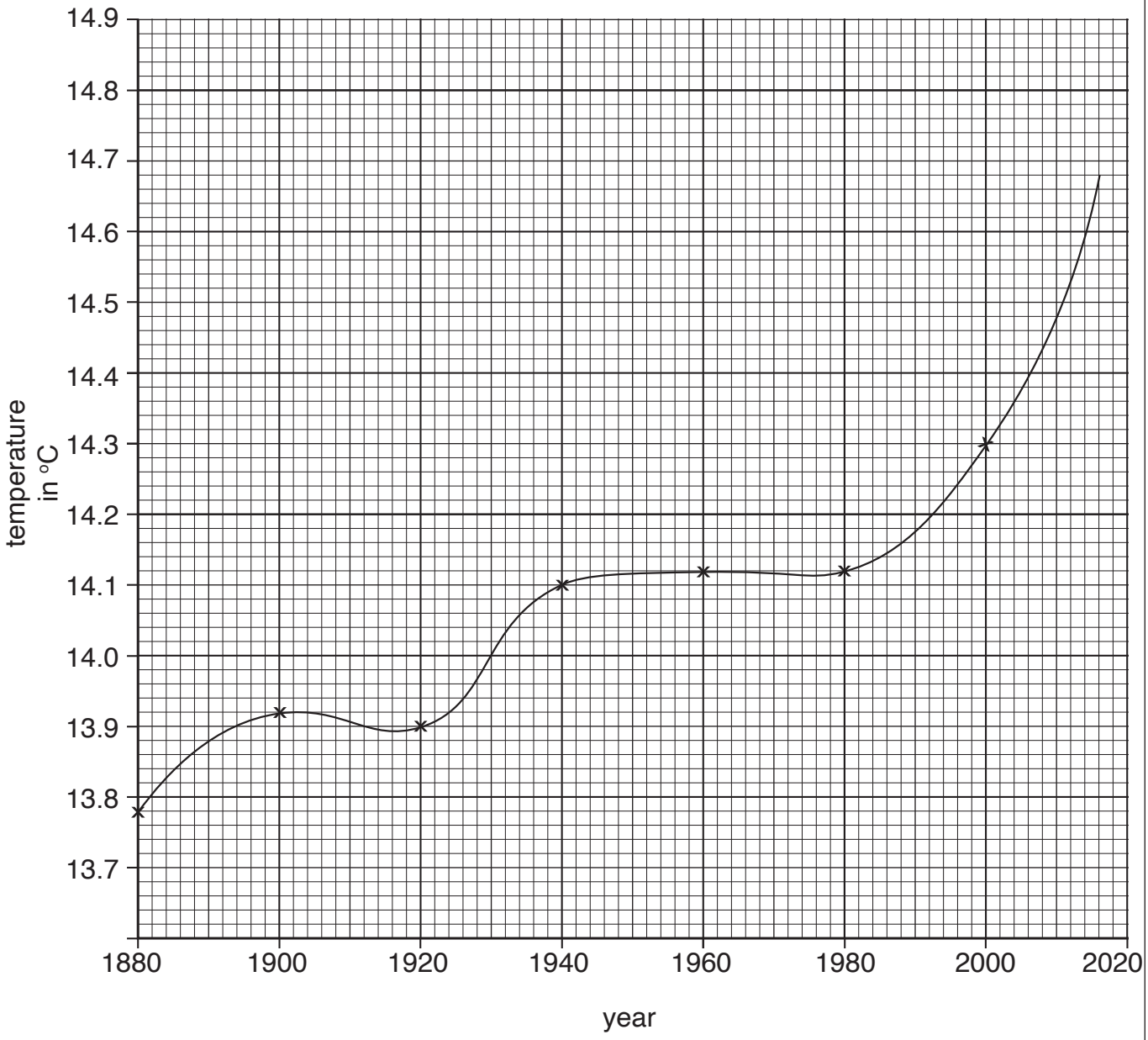

Fig. 6

(i) What was the temperature in the year 2000?

.....[1]

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(ii) Describe the pattern shown by the temperatures from the year 1860 to 2020.

1……

2……...[2]

(iii) State **two** effects of climate change on the environment.

1……

2……...[2]

[Total: 20 marks]

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SECTION D – POPULATION AND SETTLEMENTS

Answer **all** questions in the spaces provided.

4 **(a)** Study Fig. 7, which shows proportion of urban population in more developed and less developed countries.

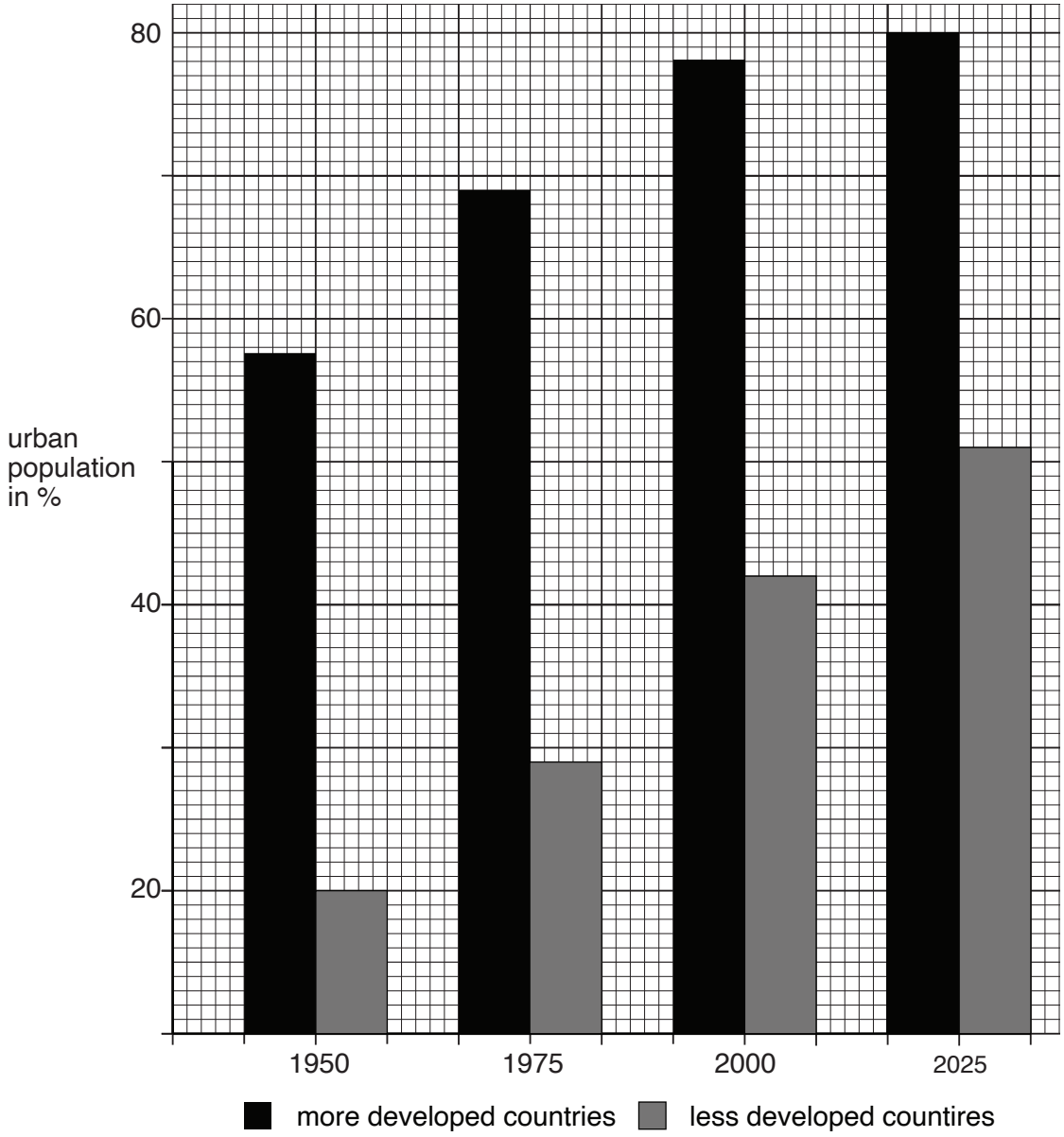

Fig. 7

(i) What was the percentage of urban population in 2000 in:

- More developed countries?……..……...……
- Less developed countries?……...……[2]

(ii) Describe the pattern in the growth rate of the proportion of urban population for the more developed and less developed countries.

1……

……

2……

……[2]

(iii) State **two** problems associated with overpopulation.

1……

……

2……

……[2]

(b) Study Fig. 8, which shows a settlement hierarchy.

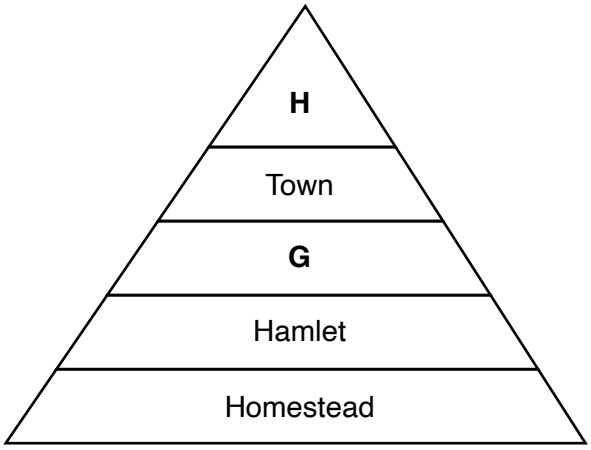

Fig. 8

(i) Define the term *settlement hierarchy*.

……[1]

(ii) Using Fig. 8, name the **two** types of settlements marked **G** and **H** in the hierarchy.

G……

H…… [2]

(iii) State **two** factors that are used to classify settlements in a hierarchy.

1……

2……[2]

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(c) Study Fig. 9, an extract about HIV/AIDS.

> *High HIV infection rates and mortality cause a different kind of population growth. In a number of countries, HIV is projected to cause a decline in population growth. HIV has already infected 20% or more of all adults aged 15-49 in Botswana, Lesotho, Namibia, South Africa, Eswatini, Zambia, and Zimbabwe. For example, in Zimbabwe, 70% of all deaths under the age of 5 are from AIDS. This translates to infant HIV infection. In the year 2000, the birth rate in Botswana was 30 per 1000 and the death rate 22 per 1000. The death rate rose to 36 per 1000 around the year 2010.*
>
> Source: *internet*

Fig. 9

(i) What does the acronym HIV stand for?

……[1]

(ii) Name **two** countries where HIV/AIDS has infected more than 20% of the adult population.

1……

2……..[2]

(iii) Calculate the difference in the death rate for Botswana between 2000 and 2010.

……

……

……[2]

(d) **(i)** State **two** economic effects of HIV/AIDS.

1……

2……..[2]

(ii) Suggest **two** ways in which the HIV/AIDS pandemic can be slowed down.

1……

2……..[2]

[Total: 20 marks]

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