

CANDIDATE
NAME

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CENTRE
NUMBER

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NUMBER

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2217/12

Paper 1 Geographical Themes

October/November 2020

1 hour 45 minutes

You must answer on the question paper.

You will need: Insert (enclosed)
 Calculator
 Ruler

INSTRUCTIONS

- Answer **three** questions in total, **one** from each section.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do **not** write on any bar codes.
- If additional space is needed, you should use the lined pages at the end of this booklet; the question number or numbers must be clearly shown.

INFORMATION

- The total mark for this paper is 75.
- The number of marks for each question or part question is shown in brackets [].
- The insert contains additional resources referred to in the questions.

Definitions

MEDCs – More Economically Developed Countries

LEDCs – Less Economically Developed Countries

This document has **32** pages. Blank pages are indicated.

Section A

Answer **one** question from this section.

- 1 (a) Study Fig. 1.1, which shows information about the Demographic Transition Model.

Demographic Transition Model

Content removed due to copyright restrictions.

Fig. 1.1

- (i) Identify the stage when population is growing most rapidly.

.....

[1]

- (ii) Using Fig. 1.1 **only**, compare:

the birth rates in Stage 2 and Stage 3

.....

.....

the death rates in Stage 1 and Stage 2

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..... [2]

3

- (iii) Using information from Fig. 1.1 **only**, explain why the rate of population growth changes as a country moves from Stage 1 to Stage 4.

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..... [3]

- (iv) Explain why birth rates are still high in many LEDCs.

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..... [4]

- (b) Study Fig. 1.2, which shows information about the population of 10 urban areas in Botswana (an LEDC in Africa) in 1991 and 2011.

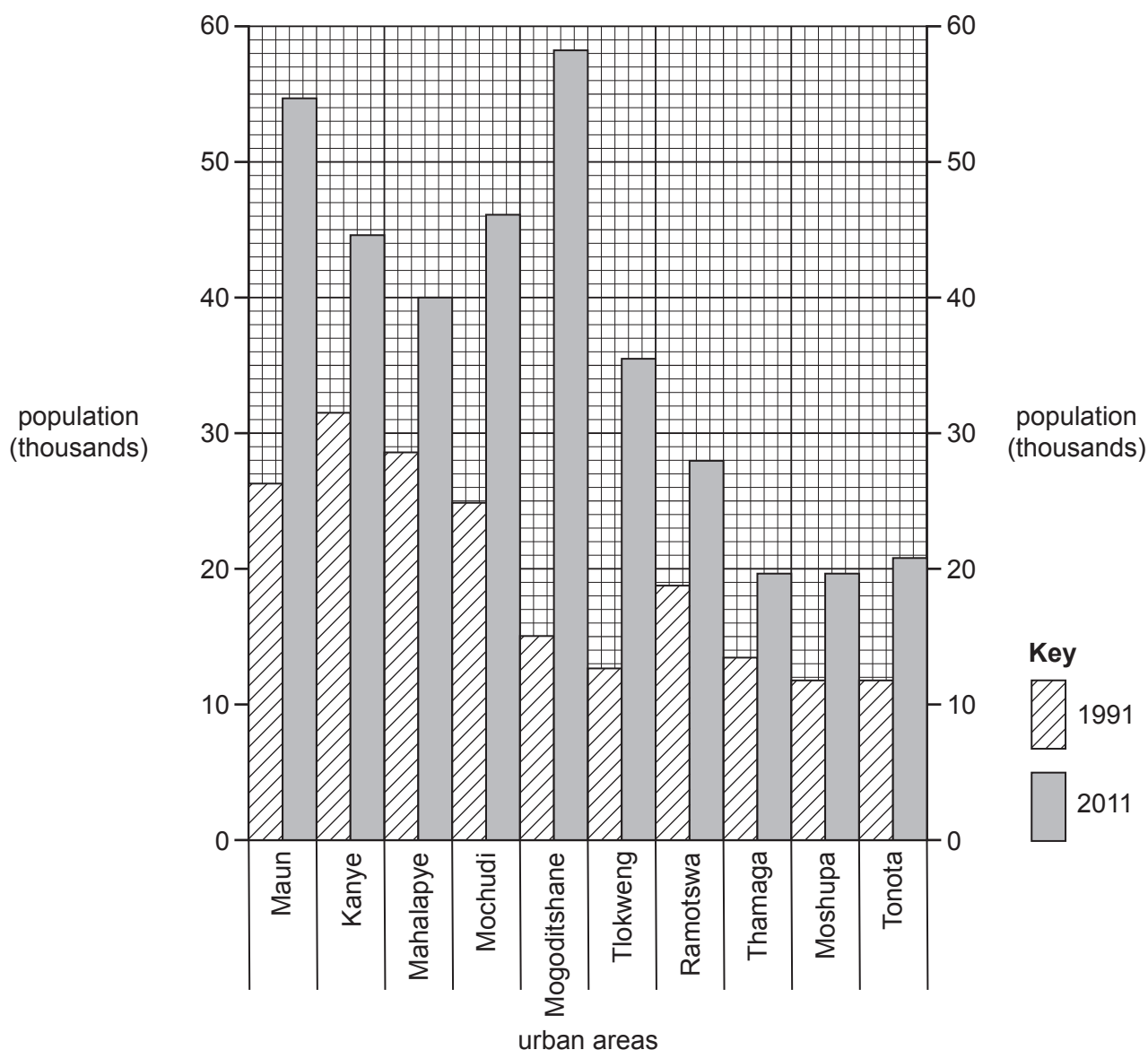


Fig. 1.2

- (i) Put the following urban areas in rank order according to their population growth between 1991 and 2011.

Kanye	Maun	Mogoditshane	Thamaga	Tonota
.....				
.....				
.....				
.....				
.....				

Highest population growth

↑ ↓

Lowest population growth

[3]

(ii) Describe the problems caused by rapid population growth in urban areas in LEDCs.

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..... [5]

- (c) For a country or area you have studied which is **sparsely populated**, explain why there is a low population density.

Name of country or area

..... [7

[Total: 25]

- 2 (a) Study Fig. 2.1, which shows information about the increasing percentage of people living ... urban areas in 1950, 2007 and 2030 (estimated).

Percentage of population in urban areas

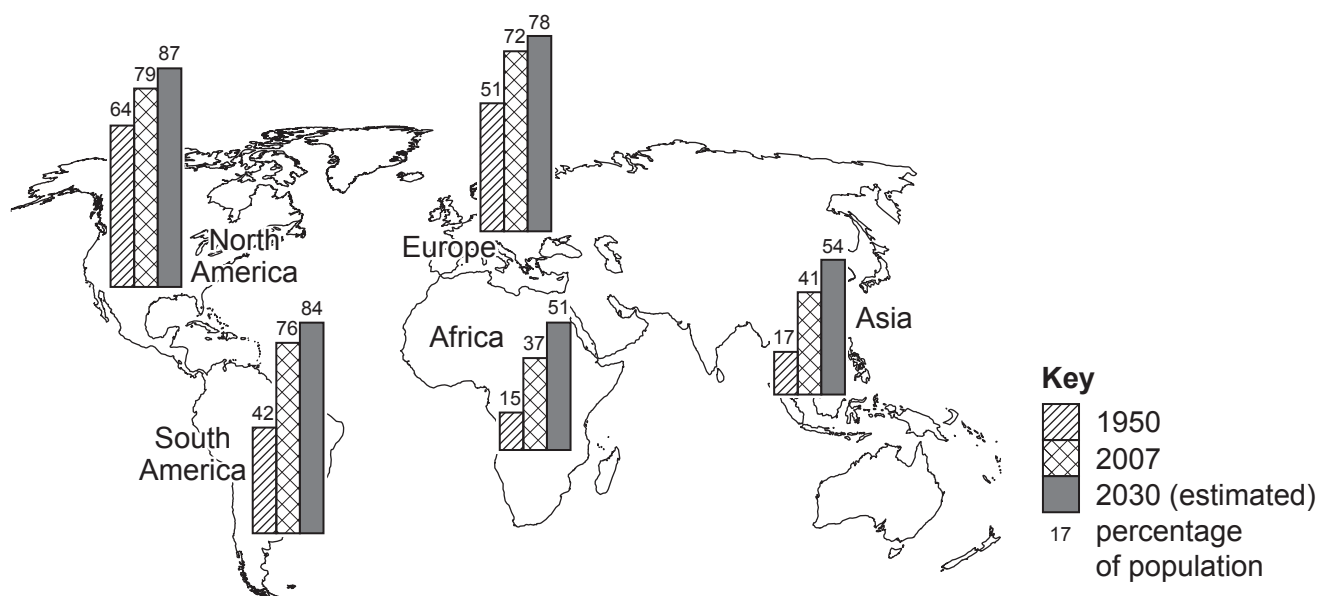


Fig. 2.1

- (i) Which word in the list below is used to describe the increase in the percentage of people living in urban areas?

Circle **one** of the following:

depopulation emigration immigration urbanisation [1]

- (ii) Identify the continent where the percentage of population living in urban areas:

- was the largest in 2007

.....

- is estimated to increase the most between 2007 and 2030.

.....

[2]

- (iii) Describe **three** impacts of the growth of urban areas on the surrounding natural environment.

1

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2

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3

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[3]

- (iv) Explain why rural areas experience problems when large numbers of people move away from them.

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..... [4]

- (b) Study Fig. 2.2 (Insert), which is a photograph showing homes in a squatter settlement in Accra, Ghana (an LEDC in Africa).

- (i) Describe **three** features of the buildings shown in Fig. 2.2.

1

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2

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3

..... [3]

- (ii) Explain why many people who live in squatter settlements suffer from diseases.

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..... [5]

..... [7

[Total: 25]

Section B

Answer **one** question from this section.

- 3 (a) Study Fig. 3.1, which shows information about flows through a drainage basin.

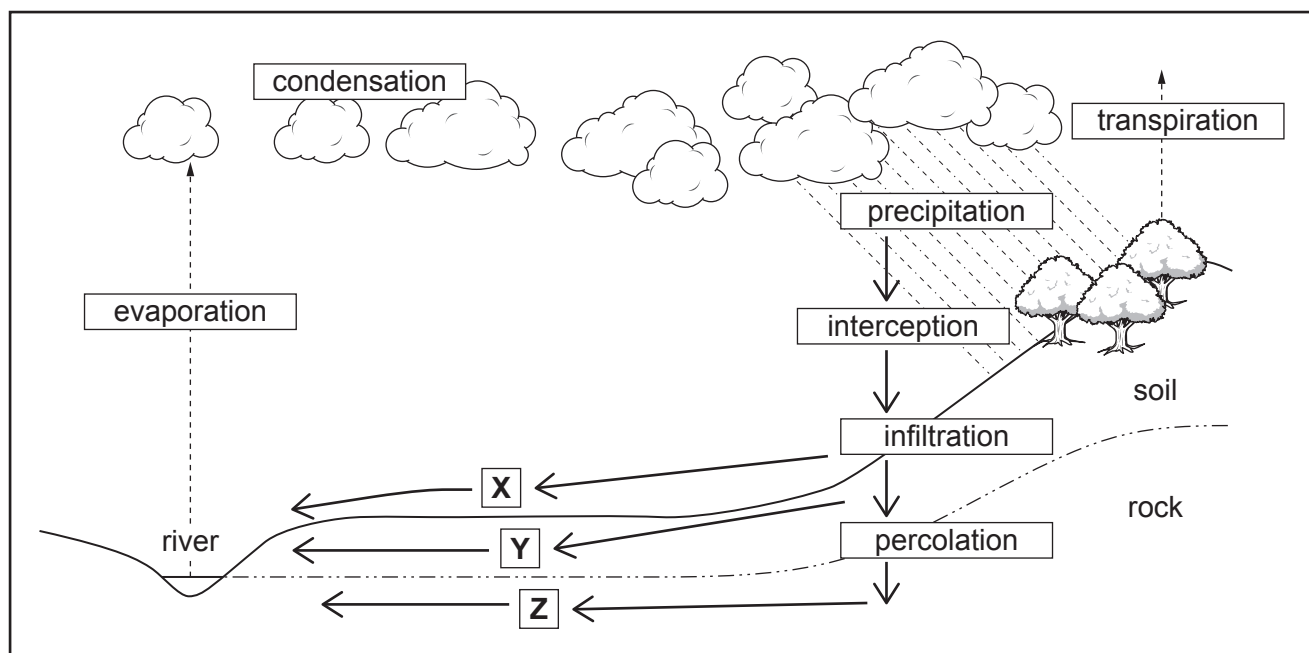


Fig. 3.1

- (i) What is meant by *transpiration*?

.....
 [1]

- (ii) Explain why the amount of interception varies:

- from place to place

.....

- at different times of the year.

.....
 [2]

- (iii) Identify the processes which take place at **X**, **Y** and **Z** in Fig. 3.1.

X

Y

Z [3]

(iv) Cawston Creek is a small river in Canada. On the outline map, Fig. 3.2 below, mark with arrows and label the following:

- a source (label **S**)
- a confluence (label **C**)
- a tributary which is less than 1 km long (label **T**)
- the watershed (label **W**)

[4]

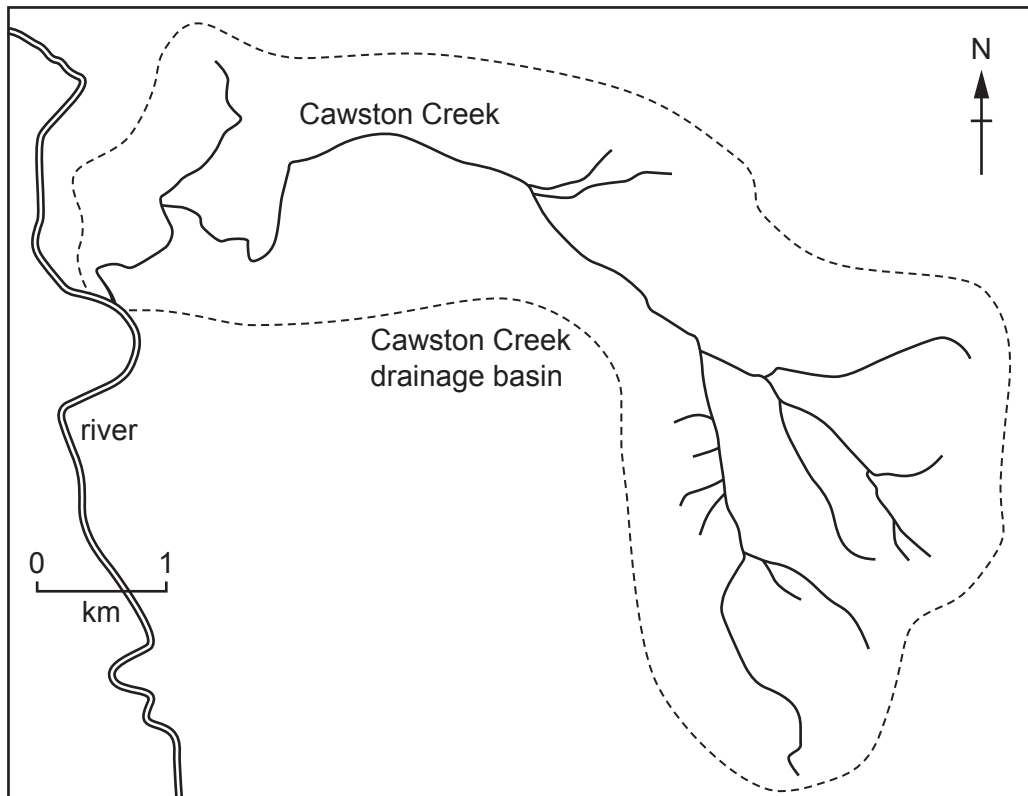


Fig. 3.2

(b) Study Figs. 3.3 and 3.4 (Insert), which are photographs showing two different rivers and their valleys.

(i) Describe the similarities and differences between the **rivers** shown in Figs. 3.3 and 3.4.

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..... [3]

(ii) Explain how rivers erode their valleys.

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..... [5]

Case No.	Case Name	Case Address	Case City	Case State	Case Zip	Case Phone	Case Email	Case Date	Case Time	Case Status	Case Notes
1	John Doe	123 Main St	New York	NY	10001	212-555-1234	john.doe@example.com	2023-10-27	14:30	Completed	Initial assessment and data collection.
2	Jane Smith	456 Elm St	Los Angeles	CA	90001	310-555-5678	jane.smith@example.com	2023-10-28	10:00	In Progress	Interview with subject and review of records.
3	Robert Johnson	789 Oak St	Chicago	IL	60601	312-555-9012	robert.johnson@example.com	2023-10-29	09:00	Pending	Awaiting further information from the subject.
4	Emily White	101 Pine St	San Francisco	CA	94101	415-555-3456	emily.white@example.com	2023-10-30	11:00	Completed	Final report and recommendations.
5	Michael Brown	202 Cedar St	Phoenix	AZ	85001	602-555-7890	michael.brown@example.com	2023-10-31	13:00	In Progress	Interview with subject and review of records.
6	Sarah Green	303 Birch St	Philadelphia	PA	19101	215-555-2345	sarah.green@example.com	2023-11-01	10:00	Pending	Awaiting further information from the subject.
7	David Black	404 Maple St	San Diego	CA	92101	619-555-6789	david.black@example.com	2023-11-02	14:00	Completed	Final report and recommendations.
8	Lisa Gray	505 Walnut St	Seattle	WA	98101	206-555-0123	lisa.gray@example.com	2023-11-03	09:00	In Progress	Interview with subject and review of records.
9	James Hall	606 Elm St	Portland	OR	97201	503-555-4567	james.hall@example.com	2023-11-04	11:00	Pending	Awaiting further information from the subject.
10	Amanda King	707 Oak St	Denver	CO	80201	303-555-8901	amanda.king@example.com	2023-11-05	13:00	Completed	Final report and recommendations.

..... [7]

[Total: 25]

- 4 (a) Study Fig. 4.1, which is a cross section through a volcano.

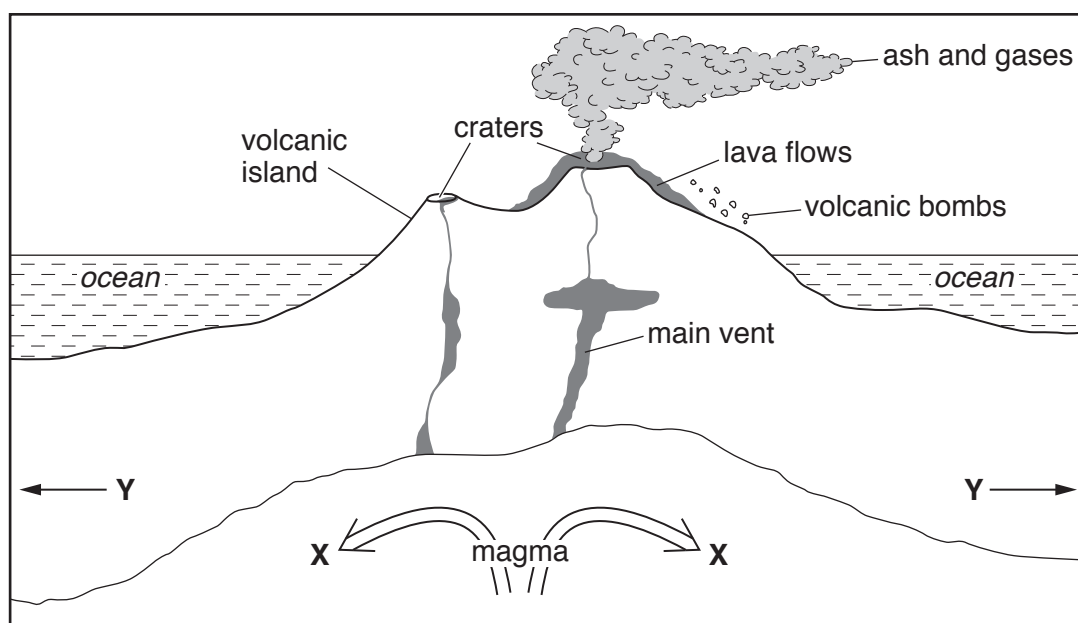


Fig. 4.1

- (i) What type of plate boundary is shown in Fig. 4.1?

..... [1]

- (ii) Choose the correct labels for features X and Y shown in Fig. 4.1.

Choose from the list below:

- convection currents
- direction of plate movement
- lava escaping from the volcano
- new crust created
- subduction.

X

Y [2]

- (iii) Using Fig. 4.1, identify **three** different hazards caused by a volcanic eruption which may cause injuries, deaths and damage.

1

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2

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3

..... [3]

- (iv) Describe the benefits of living near volcanoes.

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..... [4]

- (b) Study Fig. 4.2, which shows information about two earthquakes, one which occurred in a MEDC and one in an LEDC.

Location	Kobe (in an MEDC)	Port-au-Prince (in an LEDC)
time of day	05:46	16:53
depth of focus	16 km	12 km
magnitude (Richter scale)	7.2	7.2
deaths	6434	220 000
injured	40 000	300 000
homeless people	316 000	895 000
cost of damage	US\$220 billion	US\$11 billion

Fig. 4.2

- (i) Describe the differences in the impacts of the earthquakes at Kobe and Port-au-Prince.

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- (ii) Explain why earthquakes of the same magnitude may have different impacts.

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..... [5]

Name of example

..... [7

[Total: 25]

Section C

Answer **one** question from this section.

- 5 (a) Study Fig. 5.1, which is a diagram showing development indicators for four countries.

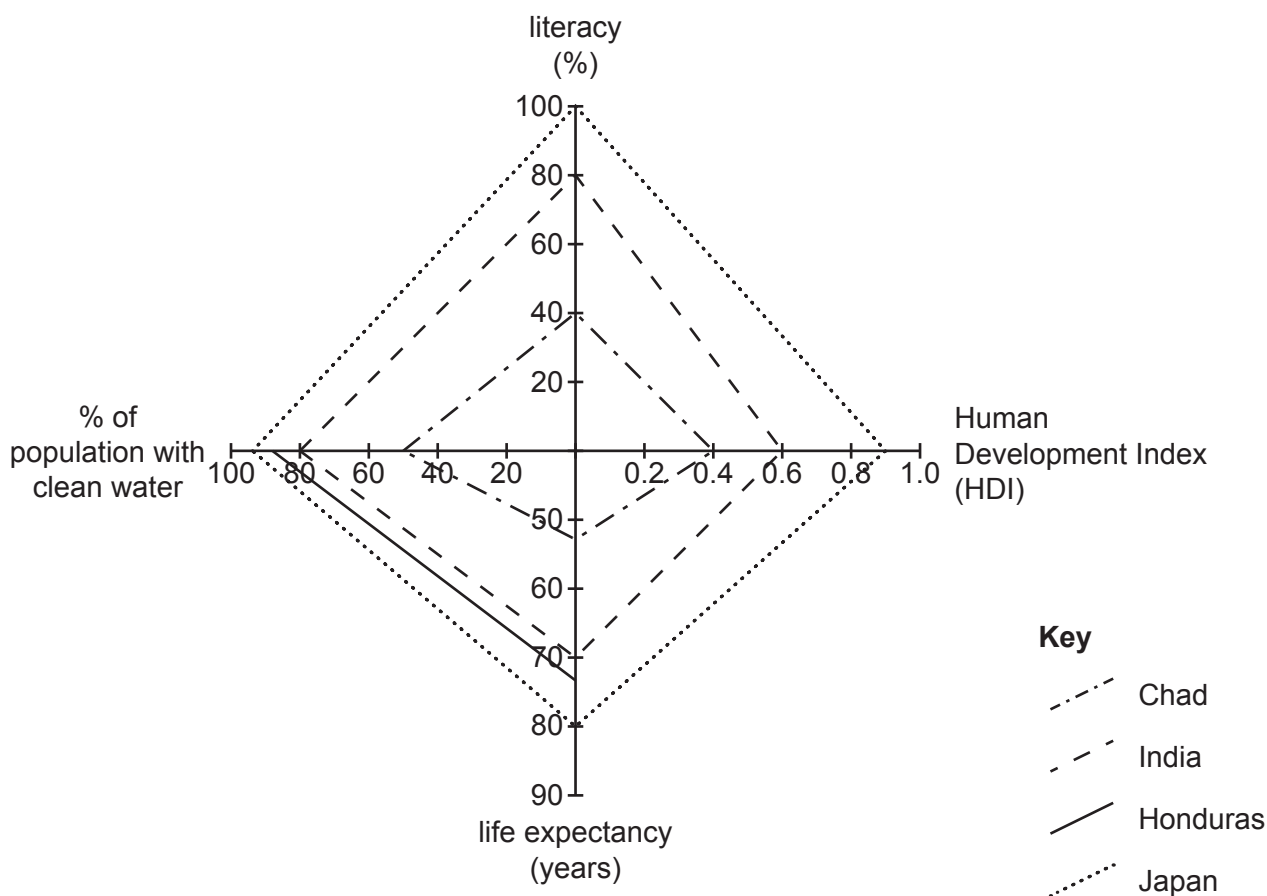


Fig. 5.1

- (i) Identify the country shown in Fig. 5.1 which has the shortest life expectancy.

.....

[1]

- (ii) **Complete Fig. 5.1** by plotting the following information:

- 90% of the population of Honduras are literate.
- the Human Development Index (HDI) of Honduras is 0.63.

[2]

- (iii) Explain why the Human Development Index (HDI) is a good method of comparing development **between countries**.

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..... [3]

- (iv) Explain why there may be inequalities in levels of development **within a country**.

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..... [4]

- (b) Study Fig. 5.2, which shows four plans that the government of an LEDC in Africa is considering.

<p style="text-align: center;">Plan 1</p> <p>Build more schools in rural areas and allow all children up to the age of 16 to attend free of charge.</p>
<p style="text-align: center;">Plan 2</p> <p>Build a multi-purpose dam across a major river which flows through the centre of the country.</p>
<p style="text-align: center;">Plan 3</p> <p>Offer financial incentives to attract transnational corporations which manufacture electrical goods.</p>
<p style="text-align: center;">Plan 4</p> <p>Build one large coastal tourist resort and another resort close to a national park in the mountains.</p>

Fig. 5.2

- (i) Suggest **three** reasons why the government is considering Plan 1.

1

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2

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3

..... [3]

(ii) Choose Plan 2, 3 or 4.

Explain why the plan which you have chosen will result in development in the country.

Plan chosen

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..... [5]

- Name of area

..... [7]

[Total: 25]

TURN PAGE FOR QUESTION 6

- 6 (a) Study Figs. 6.1 and 6.2, which show information about a subsistence farming area in The Gambia (an LEDC in Africa).

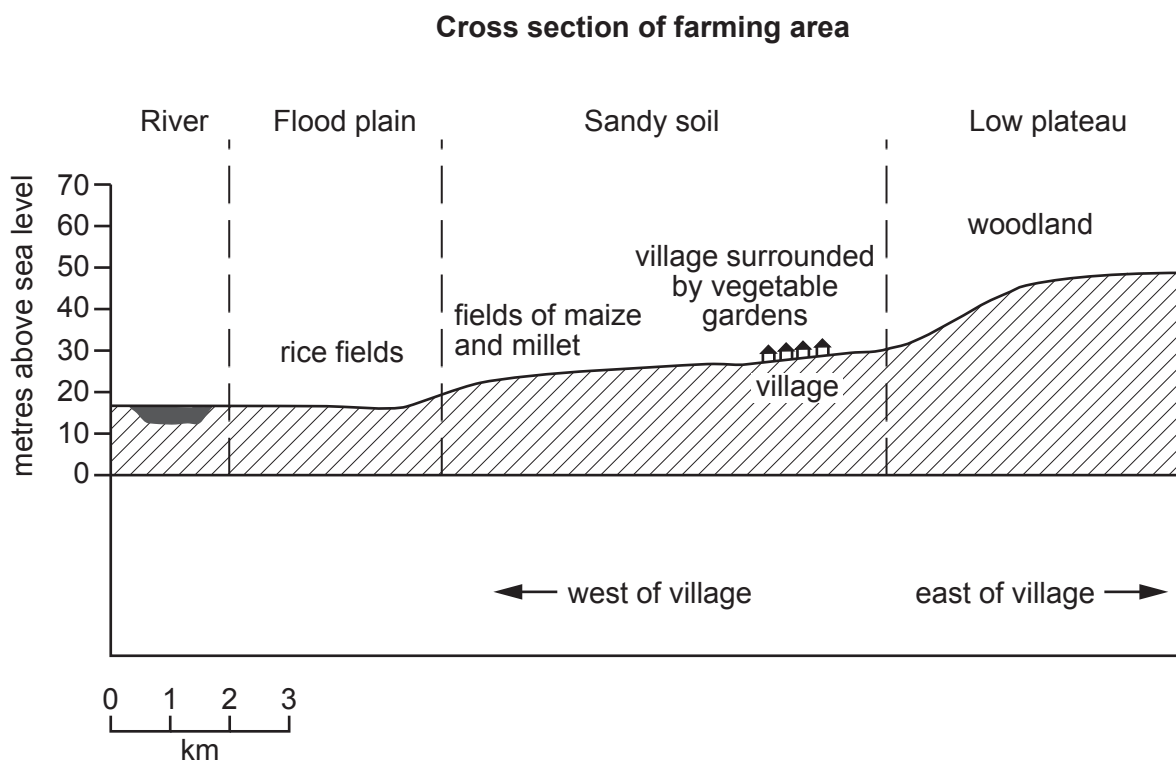


Fig. 6.1

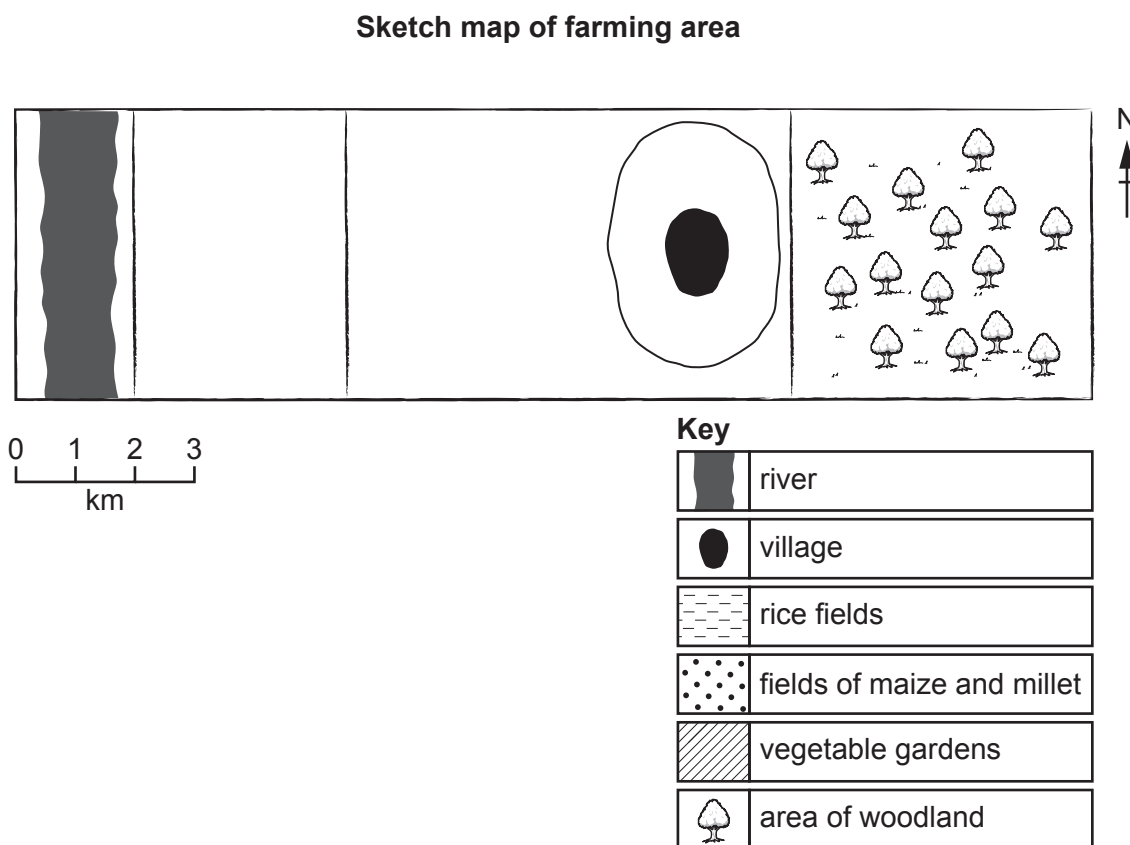


Fig. 6.2

(i) What is meant by *subsistence* farming?

.....

..... [1]

(ii) Use the key to complete the sketch map, Fig. 6.2, which shows land use in the farming area by shading:

- the rice fields
- the vegetable gardens
- the fields of maize and millet. [2]

(iii) Suggest **three** reasons why the vegetable gardens are closer to the village than the rice fields.

1

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2

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3

..... [3]

(iv) Describe the problems which may be caused for local people if the area of woodland to the east of the village was cleared to grow more maize and millet.

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..... [4]

- (b) Study Fig. 6.3, which shows recommendations which agricultural experts have given to subsistence farmers in areas such as the one shown in Fig. 6.1.

Recommendation 1
Build a covered, concrete-lined well close to the farm.
Recommendation 2
Put electric fences around the fields of maize and millet.
Recommendation 3
Use some of the land to graze a small herd of goats.

Fig. 6.3

- (i) Explain how each of the three recommendations in Fig. 6.3 may increase the farmers' food supply.

Build a covered, concrete-lined well close to the farm

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Put electric fences around the fields of maize and millet

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Use some land to graze a small herd of goats

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[3]

- (ii) Describe other methods farmers in LEDCs can use to increase their agricultural output.

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..... [5]

- Name of country or region

..... [7]

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Additional Pages

If you use the following lined pages to complete the answer(s) to any question(s), the question number(s) must be clearly shown.

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