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GEOGRAPHY

0460/11

Paper 1 Geographical Themes

October/November 2024

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.

LEDCs – Less Economically Developed Countries

MEDCs – More Economically Developed Countries

This document has **28** pages. Any blank pages are indicated.

Section A

Answer **one** question from this section.

- 1 (a) Study Fig. 1.1, information about changes in the population structure of China, a country in Asia, between 1960 and 2040 (estimated).

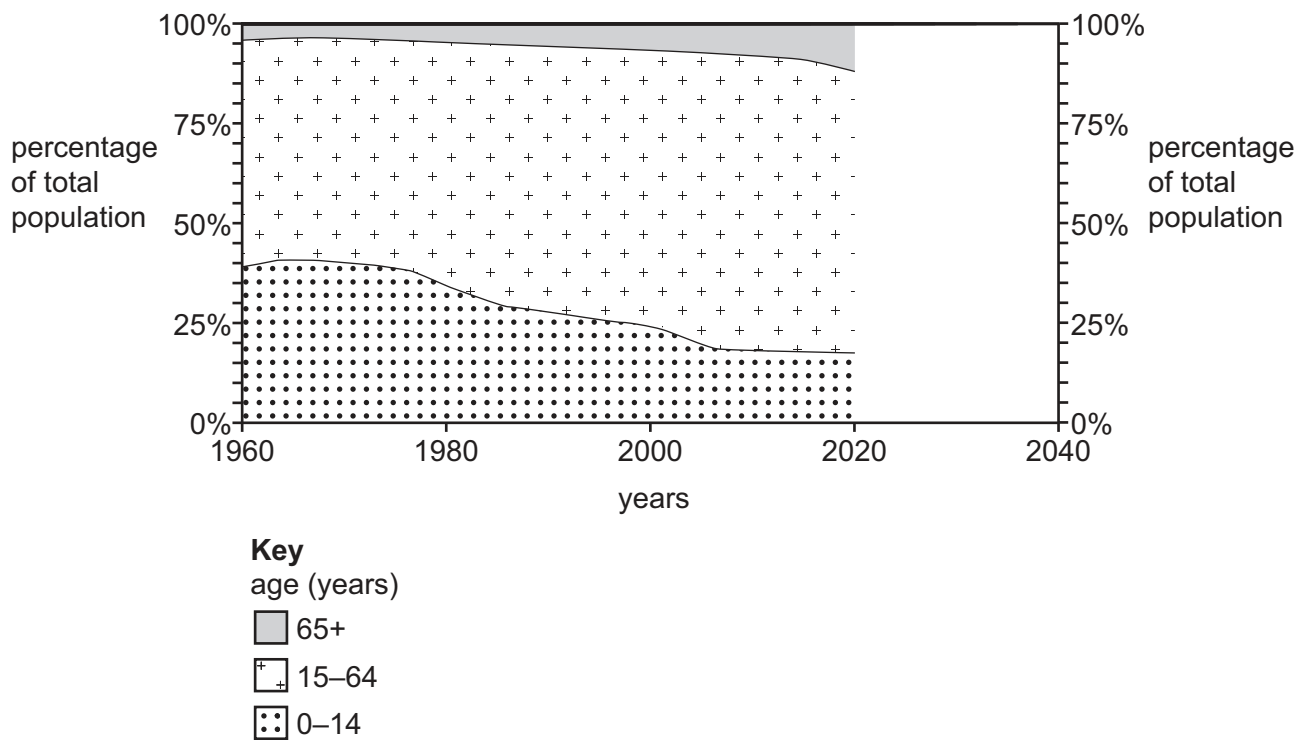


Fig. 1.1

- (i) What percentage of China's population in 1960 were 0–14 years old?

.....%

[1]

- (ii) Complete Fig. 1.1, using the following estimates for the population in 2040.

0–14 years old = 15%

15–64 years old = 60%

65 years old and over = 25%

[2]





- (iii) Describe the changes which occurred in the percentage of people aged 0–14 years in China between 1960 and 2020.
Use statistics to support your answer.

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..... [3]

- (iv) Suggest reasons for the expected increase in the percentage of people aged 65 years and over in China by 2040.

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(b) Study Fig. 1.2, information about the population structure of rural areas and urban areas in China in 2020.

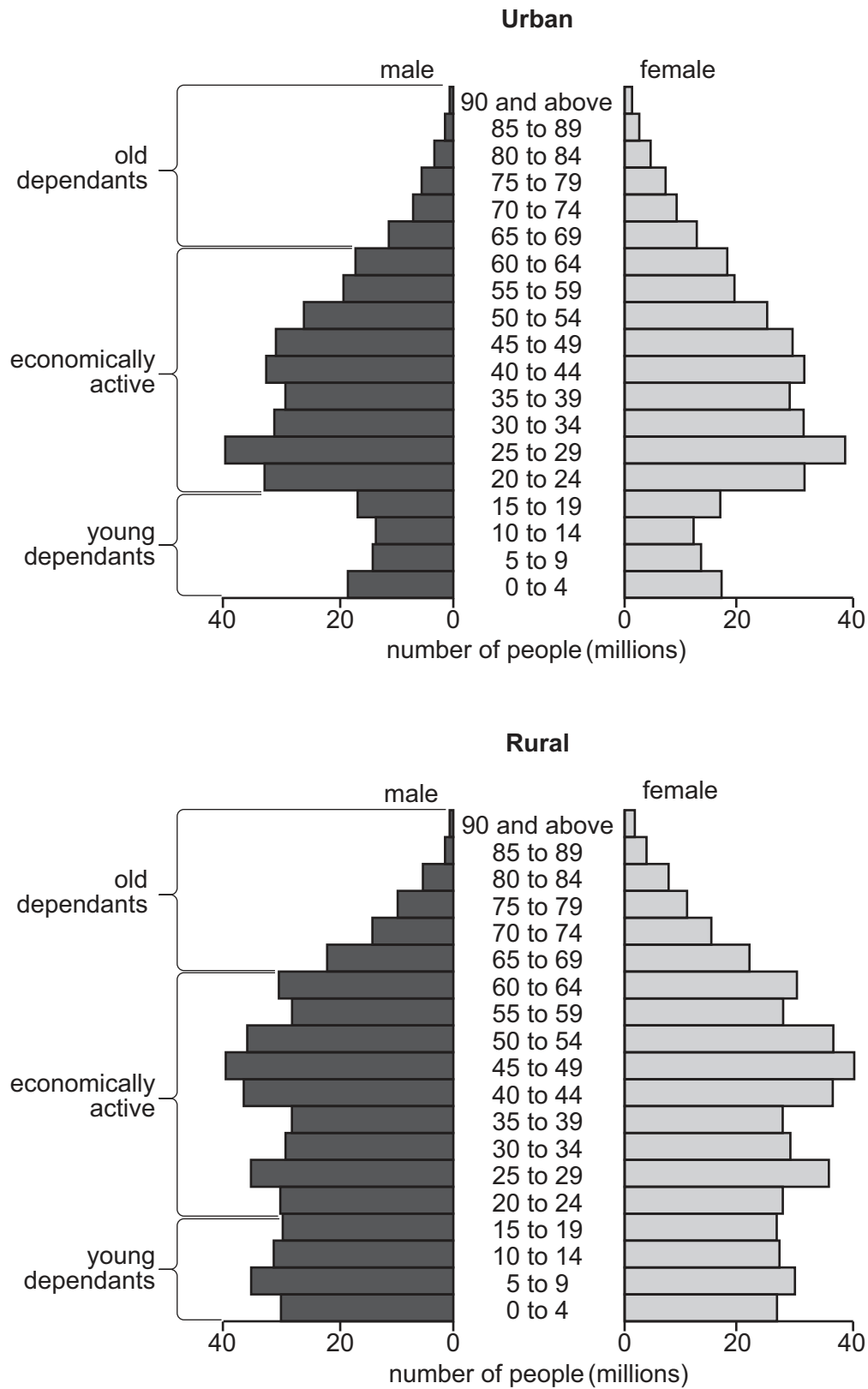


Fig. 1.2





- (i) Compare the population structures of rural areas and urban areas in China in 2020. Do **not** use statistics in your answer.

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..... [3]

- (ii) There have been large increases in the numbers of old dependants in China. Explain why this may cause problems.

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..... [5]



Name of country

[7]

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2 (a) Study Figs. 2.1, 2.2 and 2.3 (Insert), photographs of different urban land-use zones.

(i) Identify the land-use zone shown in Fig. 2.1.

Underline the correct answer from the following list.

industrial residential retailing open space [1]

(ii) Describe **one** similarity and **one** difference between the buildings shown in Figs. 2.2 and 2.3.

similarity

.....

difference

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[2]

(iii) Suggest reasons why traffic congestion may occur in the areas shown in Figs. 2.2 and 2.3.

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..... [3]

(iv) Describe the problems which traffic congestion may cause in urban areas.

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(b) Study Fig. 2.4 (Insert), a map of land use in Milan, an urban area in Italy (an MEDC in Europe).

(i) Using evidence from Fig. 2.4 **only**, describe the distribution of areas of low-density housing.

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..... [3]

(ii) Lack of good-quality housing is a problem for large numbers of people in Milan. The following three strategies are being considered to reduce the problem.

Strategy A: build high-rise housing on derelict industrial land close to the main railway line

Strategy B: build low-rise apartments on areas of open space in the inner suburbs

Strategy C: renovate areas of old, low-quality housing near industrial zones

Which of the strategies do you consider to be the best one to reduce housing problems in Milan?

Justify your answer by referring to the advantages of the strategy you have chosen and the disadvantages of those you rejected.

strategy chosen

justification

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[7]



Section B

Answer **one** question from this section.

- 3 (a) Study Fig. 3.1, information about a drainage basin.

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Fig. 3.1

- (i) What is a drainage basin?

.....
 [1]

- (ii) Put the following processes in order according to their speed of flow.

groundwater flow overland flow throughflow

first	fastest
second	↑↓
third	slowest

[2]





(iii) Explain why large amounts of overland flow may result in flooding in a drainage basin.

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..... [3]

(iv) Explain how the following **two** strategies reduce flooding in a drainage basin.

planting more trees on valley sides

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building reservoirs in upland areas

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..... [4]

(b) Study Fig. 3.2 (Insert), a photograph showing a river and its valley.

(i) Describe the features of the valley shown in Fig. 3.2.

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..... [3]





- (ii) Explain how the river shown in Fig. 3.2 will be eroding its bed and banks.
You should refer to different erosional processes.

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..... [5]

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11

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 approval from legal counsel.
4	Maria Garcia	101 Pine St	San Francisco	CA	94101	415-555-3456	maria.garcia@example.com	2023-10-30	11:00	Completed	Final report and recommendations.
5	David Lee	202 Birch St	Seattle	WA	98101	206-555-7890	david.lee@example.com	2023-10-31	13:00	In Progress	Review of case file and evidence.
6	Emily White	303 Cedar St	Portland	OR	97201	503-555-2345	emily.white@example.com	2023-11-01	15:00	Pending	Waiting for external agency response.
7	Michael Brown	404 Maple St	Denver	CO	80201	303-555-6789	michael.brown@example.com	2023-11-02	10:30	Completed	Interview with witnesses and suspects.
8	Sarah Davis	505 Spruce St	Phoenix	AZ	85001	602-555-0123	sarah.davis@example.com	2023-11-03	12:00	In Progress	Analysis of forensic evidence.
9	James Wilson	606 Ash St	San Diego	CA	92101	619-555-4567	james.wilson@example.com	2023-11-04	14:00	Pending	Review of case file and evidence.
10	Lisa Anderson	707 Hickory St	San Jose	CA	95101	408-555-8901	lisa.anderson@example.com	2023-11-05	11:30	Completed	Final report and recommendations.
11	Kevin Taylor	808 Walnut St	San Antonio	TX	78201	214-555-2345	kevin.taylor@example.com	2023-11-06	13:00	In Progress	Interview with subject and review of records.
12	Nicole Miller	909 Cherry St	San Jose	CA	95101	408-555-6789	nicole.miller@example.com	2023-11-07	15:00	Pending	Awaiting approval from legal counsel.
13	Christopher Hall	1010 Elm St	San Jose	CA	95101	408-555-0123	christopher.hall@example.com	2023-11-08	10:00	Completed	Final report and recommendations.
14	Amanda King	1111 Oak St	San Jose	CA	95101	408-555-4567	amanda.king@example.com	2023-11-09	12:00	In Progress	Review of case file and evidence.
15	Matthew Scott	1212 Pine St	San Jose	CA	95101	408-555-8901	matthew.scott@example.com	2023-11-10	14:00	Pending	Waiting for external agency response.
16	Stephanie Green	1313 Birch St	San Jose	CA	95101	408-555-2345	stephanie.green@example.com	2023-11-11	16:00	Completed	Interview with witnesses and suspects.
17	Anthony Adams	1414 Cedar St	San Jose	CA	95101	408-555-6789	anthony.adams@example.com	2023-11-12	18:00	In Progress	Analysis of forensic evidence.
18	Christina Baker	1515 Spruce St	San Jose	CA	95101	408-555-0123	christina.baker@example.com	2023-11-13	20:00	Pending	Review of case file and evidence.
19	Gregory Nelson	1616 Ash St	San Jose	CA	95101	408-555-4567	gregory.nelson@example.com	2023-11-14	22:00	Completed	Final report and recommendations.
20	Hannah Hill	1717 Hickory St	San Jose	CA	95101	408-555-8901	hannah.hill@example.com	2023-11-15	00:00	In Progress	Interview with subject and review of records.
21	Isaac Young	1818 Walnut St	San Jose	CA	95101	408-555-2345	isaac.young@example.com	2023-11-16	02:00	Pending	Awaiting approval from legal counsel.
22	Jessica King	1919 Cherry St	San Jose	CA	95101	408-555-6789	jessica.king@example.com	2023-11-17	04:00	Completed	Final report and recommendations.
23	Kyle Lee	2020 Elm St	San Jose	CA	95101	408-555-0123	kyle.lee@example.com	2023-11-18	06:00	In Progress	Review of case file and evidence.
24	Laura Scott	2121 Oak St	San Jose	CA	95101	408-555-4567	laura.scott@example.com	2023-11-19	08:00	Pending	Waiting for external agency response.
25	Mark White	2222 Pine St	San Jose	CA	95101	408-555-8901	mark.white@example.com	2023-11-20	10:00	Completed	Interview with witnesses and suspects.
26	Nancy Brown	2323 Birch St	San Jose	CA	95101	408-555-2345	nancy.brown@example.com	2023-11-21	12:00	In Progress	Analysis of forensic evidence.
27	Paul Davis	2424 Cedar St	San Jose	CA	95101	408-555-6789	paul.davis@example.com	2023-11-22	14:00	Pending	Review of case file and evidence.
28	Rebecca Hall	2525 Spruce St	San Jose	CA	95101	408-555-0123	rebecca.hall@example.com	2023-11-23	16:00	Completed	Final report and recommendations.
29	Timothy King	2626 Ash St	San Jose	CA	95101	408-555-4567	timothy.king@example.com	2023-11-24	18:00	In Progress	Interview with subject and review of records.
30	Victoria Lee	2727 Hickory St	San Jose	CA	95101	408-555-8901	victoria.lee@example.com	2023-11-25	20:00	Pending	Awaiting approval from legal counsel.
31	William Scott	2828 Walnut St	San Jose	CA	95101	408-555-2345	william.scott@example.com	2023-11-26	22:00	Completed	Final report and recommendations.
32	Xavier White	2929 Cherry St	San Jose	CA	95101	408-555-6789	xavier.white@example.com	2023-11-27	00:00	In Progress	Review of case file and evidence.
33	Yvonne Brown	3030 Elm St	San Jose	CA	95101	408-555-0123	yvonne.brown@example.com	2023-11-28	02:00	Pending	Waiting for external agency response.</

..... [7]

[Total: 25]



4 (a) Study Fig. 4.1, a graph showing the climate of the Simpson Desert in Australia.

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Fig. 4.1

(i) Complete Fig. 4.1, using the following information.

The Simpson Desert has an average rainfall in December of 7 mm.

[1]

(ii) Calculate the range of temperature for the Simpson Desert in January.
You should show your calculations.

= °C

[2]

(iii) Suggest reasons why the Simpson Desert has a wide range of temperature.

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[3]





(iv) Explain why rainfall amounts are low in hot deserts.

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(b) Study Fig. 4.2, a diagram showing different types of hot desert vegetation.

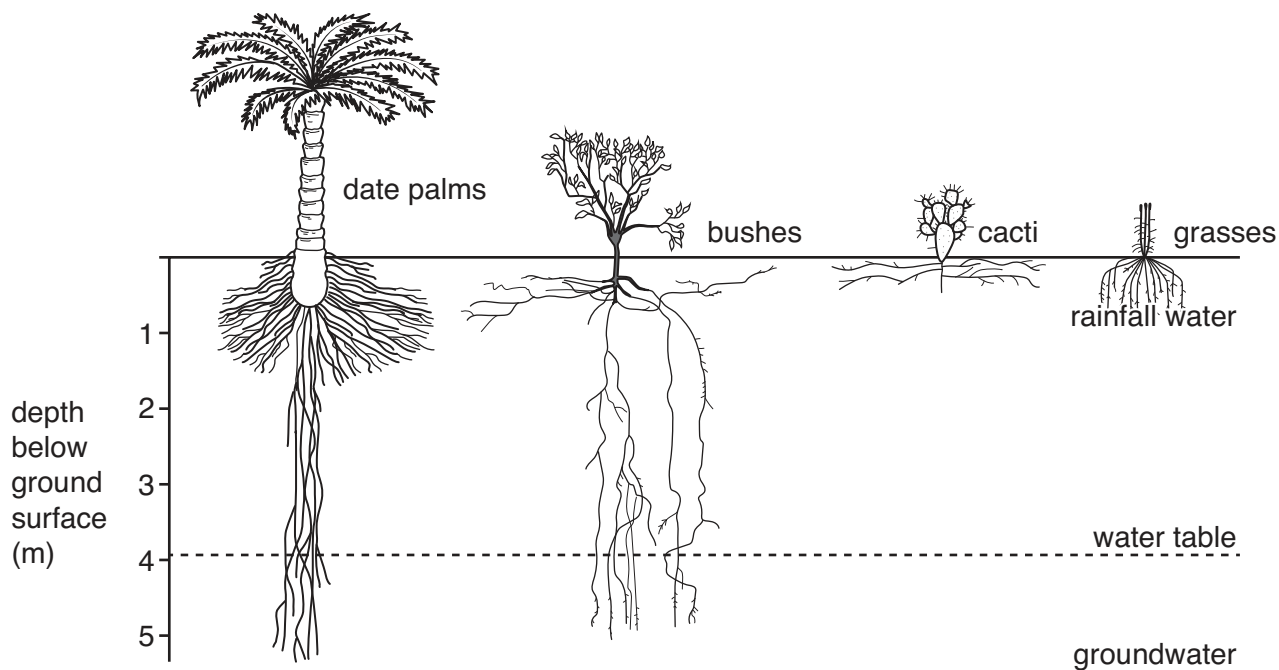


Fig. 4.2

(i) Using Fig. 4.2 **only**, describe **three** differences between the bushes and cacti.

- 1
- 2
- 3

[3]





- (ii) Explain how the vegetation which grows in hot deserts can survive for a long time without any rainfall.

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- Name of area

..... [7]

[7]



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Section C

Answer **one** question from this section.

- 5 (a) Study Fig. 5.1 (Insert), a map showing the HDI of India's states. India is an LEDC in south Asia.

- (i) What do the initials HDI mean?

H..... D..... I..... [1]

- (ii) Using Fig. 5.1, name

an Indian state with an HDI of 0.551–0.600

.....

a state in the east of India with an HDI of 0.651–0.700.

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[2]

- (iii) Name the **three** indicators which are used to calculate the HDI.

1

2

3

[3]

- (iv) Suggest why some states in India have a higher HDI than other states.

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(b) Study Fig. 5.2 (Insert), a photograph taken in Mumbai, India.

(i) Using evidence from Fig. 5.2, suggest what inequalities exist in Mumbai.

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..... [3]

(ii) Many transnational corporations (TNCs) are located in the major urban areas in India. Suggest the advantages and disadvantages of these transnational corporations for people who live in cities such as Mumbai.

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6 (a) Study Fig. 6.1 (Insert), a map of the Meru National Park in Kenya, an LEDC in east Africa.

(i) Estimate the area of Meru National Park in square kilometres.

Underline the correct answer from the following list.

500 km² 1000 km² 3000 km² 10 000 km² [1]

(ii) What is the straight line distance and direction from Ura Gate to the National Park Headquarters?

distance km

compass direction

[2]

(iii) Using Fig. 6.1 **only**, identify **three** tourist attractions that have been provided in Meru National Park.

1

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[3]

(iv) Suggest what problems the tourist industry may cause for local Kenyan people.

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(b) Study Fig. 6.2 (Insert), a map showing national parks in Namibia, an LEDC in Africa.

(i) Describe the location of the following **three** national parks in Namibia.

Dorob

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Bwabwata

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Etosha

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[3]

(ii) Explain how national parks help to reduce risks to the natural environment in areas where tourism is important.

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[5]

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Name of tourist area studied.....

[7]

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