

Please check the examination details below before entering your candidate information

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| Candidate surname | | | | | Other names | | | |
| Centre Number | | | | | Candidate Number | | | |
| Pearson Edexcel Level 1/Level 2 GCSE (9–1) | | | | | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | | | |
| Wednesday 3 June 2020 | | | | | | | | |
| Morning (Time: 1 hour 30 minutes) | | | | | Paper Reference 1GA0/02 | | | |
| Geography A Paper 2: The Human Environment | | | | | | | | |
| You must have: Resource Booklet Calculator | | | | | | | Total Marks | |

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- In Section A and Section B answer **all** questions.
- In Section C answer **all** of Question 3 and **either** Question 4 **or** Question 5.
- Answer the questions in the spaces provided
– *there may be more space than you need.*
- Where asked you must **show all your working out** with **your answer clearly identified** at the **end of your solution**.

Information

- The total mark for this paper is 94.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- The marks available for spelling, punctuation, grammar and use of specialist terminology are clearly indicated.

Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.

Turn over ►

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SECTION A

Changing Cities

Answer ALL questions in this section.

Write your answers in the spaces provided.

Some questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

- 1 The character of major cities in developing and emerging countries is influenced by their fast rate of population increase.

(a) Study Figure 1a in the Resource Booklet.

- (i) Identify the year with the largest percentage growth due to natural increase. (1)

A 1981

B 1991

C 2001

D 2011

- (ii) Describe the overall change in Dhaka's total population between 1981 and 2011.

Use data in your answer.

(2)

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- (iii) Calculate the mean in-migration rate for Dhaka between 1981 and 2011.

Answer to two decimal places.

You must show your workings in the space below.

(2)

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(b) Explain **one** reason for the site of a named major city in **either** a developing **or** an emerging country.

(2)

Named major city in a developing or emerging country

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(c) Identify the meaning of the term **suburbanisation**.

(1)

- A** The increasing inequality between cities and rural areas
- B** The growth of a city into the surrounding countryside
- C** The redevelopment of old buildings in inner city areas
- D** The migration of people from rural to inner city areas

(d) State **one** reason why deindustrialisation has taken place in some UK cities.

(1)

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(e) Explain **two** reasons why urbanisation occurs at different rates around the world.

(4)

1

2

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(f) The age structure of major cities in the UK is changing.

Study Figure 1b below.

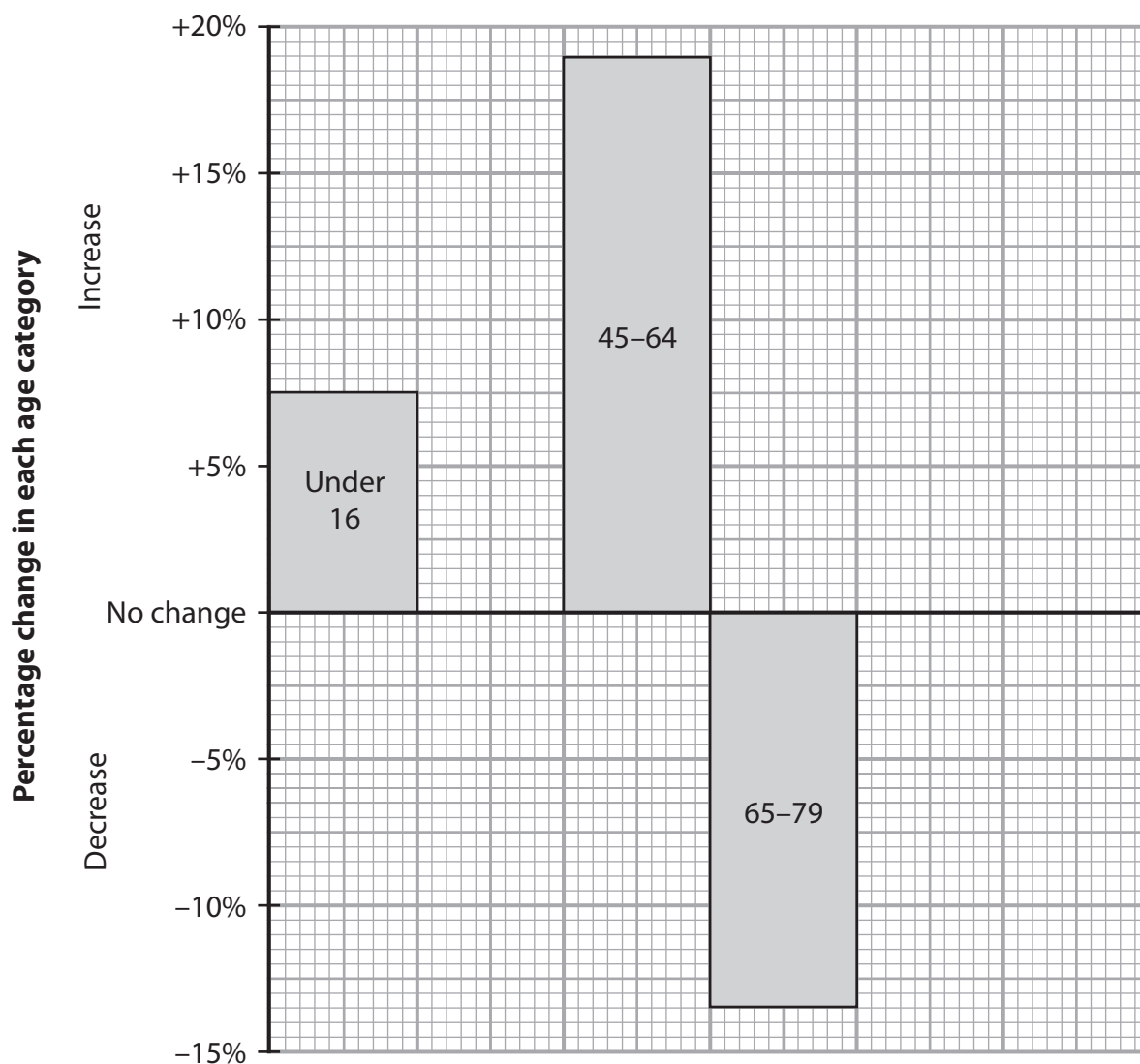


Figure 1b

Percentage (%) change in Brighton's age structure, 2001–2011

(i) Plot the data from the table below on Figure 1b.

(2)

| Age group | Percentage (%) change 2001–2011 |
|-------------|---------------------------------|
| 16–44 | +15 |
| 80 and over | –10 |



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(Total for Question 1 = 30 marks)

TOTAL FOR SECTION A = 30 MARKS



(iv) State **two** limitations of just using Figure 2a to investigate changes in global HDI scores over time.

(2)

1

2

(b) There have been changes in the primary, secondary, tertiary and quaternary sectors of the economy in many developing and emerging countries.

(i) Identify **two** economic activities that are in the tertiary sector.

(2)

- A retailing
- B manufacturing
- C banking
- D agriculture
- E forestry

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Study Figure 2b below.

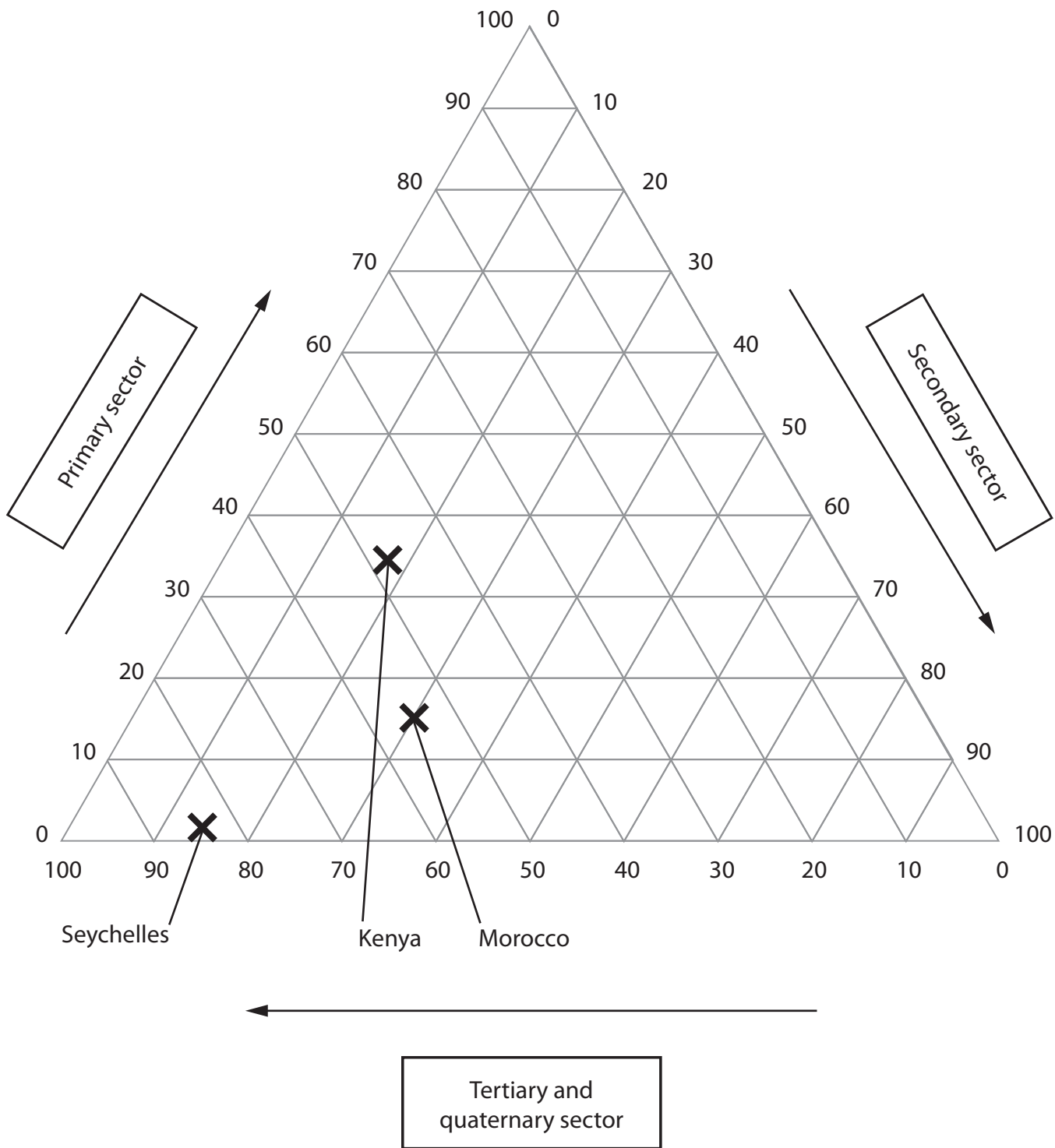


Figure 2b

Percentage (%) contribution of different economic sectors to total GDP for selected developing and emerging countries, 2017

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(ii) Plot the data below for The Gambia on Figure 2b.

(1)

| Economic sector | Percentage (%) of The Gambia's total GDP |
|-------------------------|--|
| Primary | 20 |
| Secondary | 15 |
| Tertiary and quaternary | 65 |

(iii) State **two** possible reasons why the contribution of the primary sector is very high in Kenya.

(2)

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2

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(iv) There has been a large increase in the tertiary sector in the Seychelles since 1971.

Suggest **one** positive impact of this increase in the tertiary sector.

(3)

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(c) Study Figure 2c in the Resource Booklet.

Calculate the increase in estimated mobile broadband connections between 2017 and 2022.

(1)

..... billion

(d) Explain **one** negative social impact and **one** negative economic impact of rapid development.

(4)

Social

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Economic

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(e) Assess the impacts of different international strategies that attempt to reduce uneven global development.

(8)

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(Total for Question 2 = 30 marks)

TOTAL FOR SECTION B = 30 MARKS



SECTION C

Resource Management

Answer ALL parts of Question 3.
Write your answers in the spaces provided.

Some questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

3 The pattern of consumption of natural resources is changing.

(a) Identify **one** non-renewable natural resource.

(1)

- A water
- B sunlight
- C coal
- D oxygen

(b) Define the term **biotic**.

(1)

(c) Study Figure 3 in the Resource Booklet.

(i) Identify the region of Africa that has had an increase in the percentage of the population who are undernourished.

(1)

- A Southern Africa
- B Eastern Africa
- C Central Africa
- D Western Africa

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(ii) Calculate the range of the percentage of the population who were undernourished in 2016.

(1)

..... %

(iii) The total population of Southern Africa in 2016 was 64 million.

Calculate the total number of undernourished people in Southern Africa in 2016.

Answer to one decimal place.

You must show your workings in the space below.

(2)

..... million

(iv) Suggest **one** negative environmental impact of farming in many African countries.

(4)

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(Total for Question 3 = 10 marks)

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Answer EITHER Question 4 OR Question 5

Energy Resource Management

Spelling, punctuation, grammar and use of specialist terminology will be assessed in Question 4(e).

If you answer Question 4 put a cross in the box .

4 Countries use energy resources in different proportions to meet demand.

(a) Identify the correct meaning of the term **renewable energy resources**.

(1)

- A** Energy resources that will never run out
- B** Energy resources obtained from plants and animals
- C** Energy resources that will eventually run out
- D** Energy resources obtained by recycling glass and cardboard

(b) Study Figure 4 in the Resource Booklet.

(i) Identify the proportion of electricity generated using renewables in 2016.

(1)

- A** 15%
- B** 20%
- C** 25%
- D** 30%

(ii) Compare the trends for coal and natural gas shown in Figure 4.

Use data in your answer.

(3)

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(iii) Suggest **one** reason for the changing proportion of natural gas used to generate electricity shown in Figure 4.

(2)

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(c) State **one** negative impact of developing wind power on the environment.

(1)

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(d) Explain **two** negative impacts of the use of uranium as an energy resource.

(4)

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Do not answer Question 5 if you have answered Question 4.

Water Resource Management

Spelling, punctuation, grammar and use of specialist terminology will be assessed in Question 5(e).

If you answer Question 5 put a cross in the box .

5 The supply and consumption of water resources need to be managed carefully.

(a) Identify the correct meaning of the term **desalination**.

(1)

- A** The removal of salt from sea water to make it usable
- B** The deepening of a river so that it can hold more water
- C** The use of underground stores of water to increase supplies
- D** The adding of water to farmland by artificial means

(b) Study Figure 5 in the Resource Booklet.

(i) Identify the country with the largest predicted change in water stress between 2020 and 2040.

(1)

- A** Botswana
- B** Chile
- C** Estonia
- D** Namibia

(ii) Compare the trends for Botswana and Chile shown in Figure 5.

Use data in your answer.

(3)

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(Spelling, punctuation, grammar and use of specialist terminology = 4 marks)
(Total for Question 5 = 24 marks)

TOTAL FOR SECTION C = 34 MARKS
TOTAL FOR PAPER = 94 MARKS



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Pearson Edexcel Level 1/Level 2 GCSE (9–1)

Wednesday 3 June 2020

Morning (Time: 1 hour 30 minutes)

Paper Reference **1GA0/02**

Geography A

Paper 2: The Human Environment

Resource Booklet

Do not return this Resource Booklet with the question paper.

Turn over ►

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SECTION A

Changing Cities

| Year | Total population (millions) | Growth rate (%) | In-migration rate (%) | Growth due to in-migration (%) | Growth due to natural increase (%) |
|------|-----------------------------|-----------------|-----------------------|--------------------------------|------------------------------------|
| 1981 | 3.4 | 9.94 | 7.62 | 77 | 23 |
| 1991 | 7.1 | 7.55 | 5.54 | 73 | 27 |
| 2001 | 10.3 | 3.71 | 2.13 | 57 | 43 |
| 2011 | 15.1 | 3.96 | 2.49 | 63 | 37 |

Figure 1a

Population data for Dhaka, a major city in Bangladesh, an emerging country



Figure 1c

Photograph showing an area of Leeds, a major city in the UK

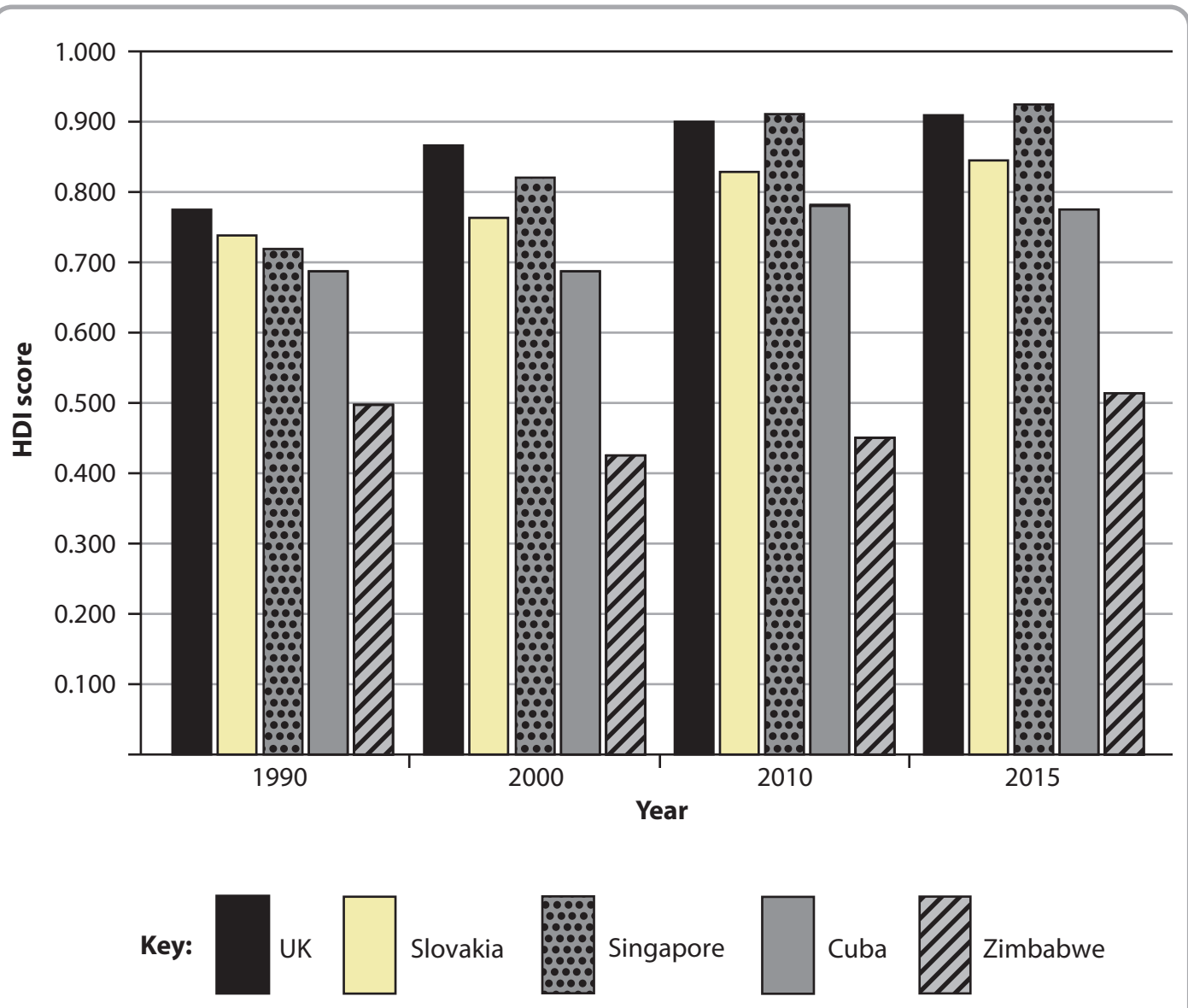


Figure 2a
Human Development Index (HDI) scores for selected countries, 1990–2015

Africa set to top 1 billion mobile internet connections in five years

Africa's mobile internet connections are set to increase in the next five years because of affordable smartphones and more high-speed broadband networks. A report estimates that mobile broadband connections will rise from 0.42 billion at the end of this year to 1.07 billion by the end of 2022.

Mobile phone operators are investing heavily in high-speed networks to meet demand from users who are increasingly using phones for everything from paying their bills to streaming videos and surfing the internet.

Figure 2c**Extract from a newspaper article, 6 November 2017**

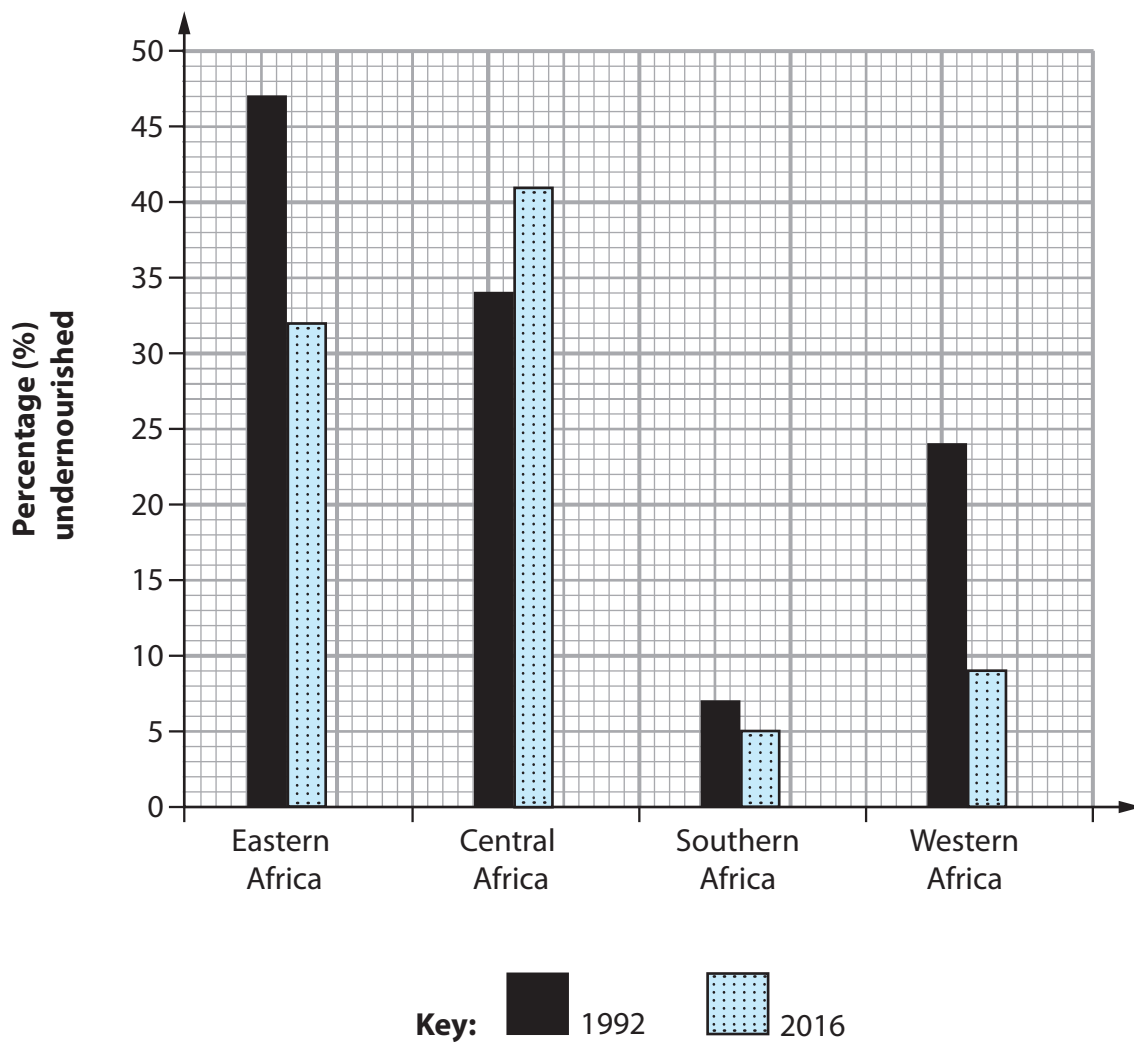


Figure 3

Percentage (%) of the population who were undernourished in selected areas of Africa in 1992 and 2016

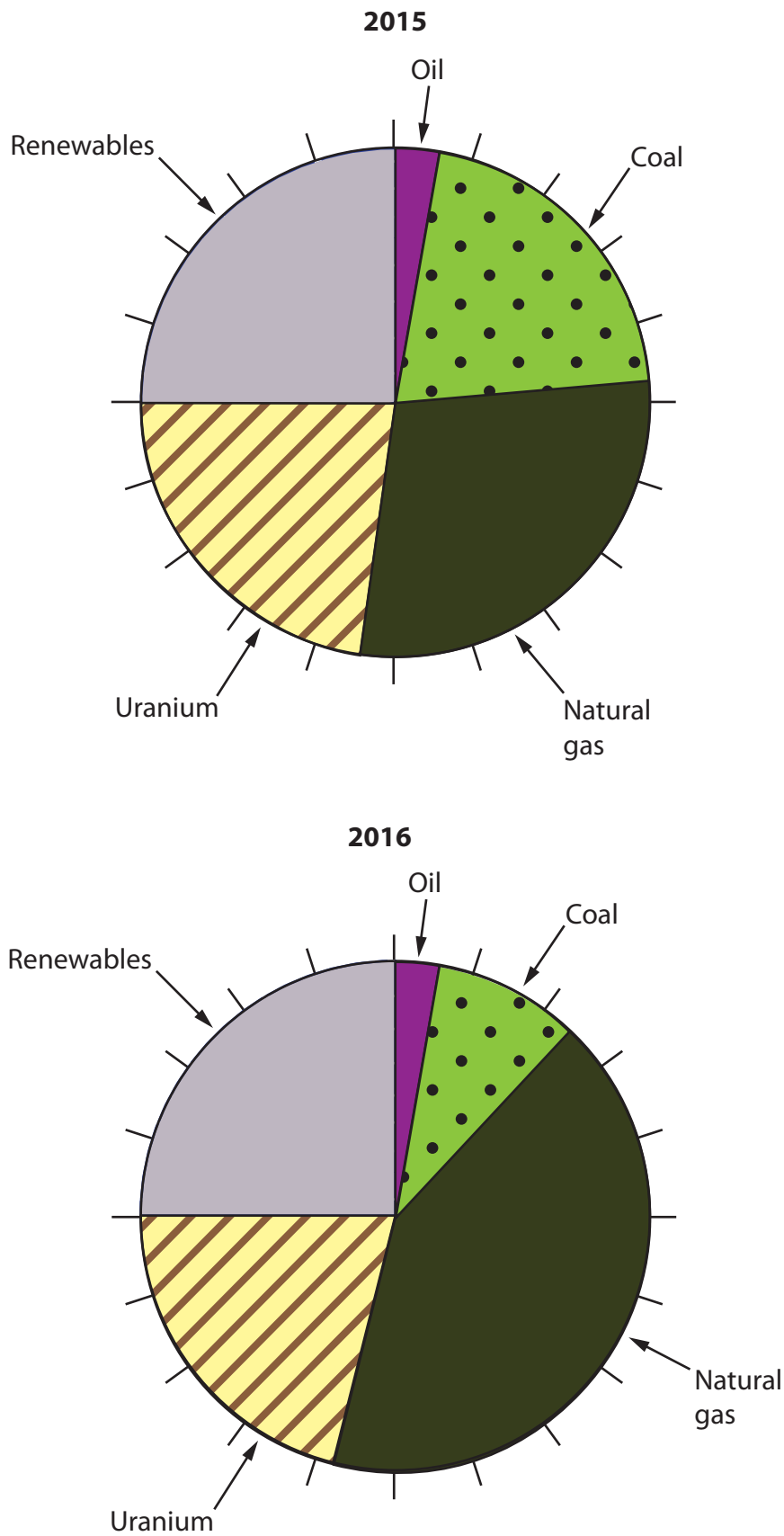


Figure 4

Proportion of energy resources used to generate electricity in the UK, 2015–2016

| | 2020 | 2030 | 2040 |
|-----------------|----------------|------------------------|------------------------|
| Botswana | 1.97 Low | 2.40 Medium | 3.00 High |
| Chile | 3.69 High | 4.09 Extremely High | 4.45 Extremely High |
| Estonia | 2.69 Medium | 3.46 High | 3.91 High |
| Namibia | 2.40 Medium | 2.61 Medium | 3.18 High |

Key

| | |
|----------------|------------|
| Low | (1.0–1.99) |
| Medium | (2.0–2.99) |
| High | (3.0–3.99) |
| Extremely High | (4.0–4.99) |

Figure 5

Predicted water stress in selected emerging and developing countries, 2020–2040

Pearson Education Ltd. gratefully acknowledges all the following sources used in the preparation of this paper:

Figure 1a Sourced from: [http://www.rajukdhaka.gov.bd/rajuk/image/slideshow/1.%20Draft%20Dhaka%20Structure%20Plan%20Report%202016-2035\(Full%20%20Volume\).pdf](http://www.rajukdhaka.gov.bd/rajuk/image/slideshow/1.%20Draft%20Dhaka%20Structure%20Plan%20Report%202016-2035(Full%20%20Volume).pdf)

Figure 2a Source from: <http://hdr.undp.org/en/data>

Figure 2c Source based on: <https://uk.reuters.com/article/us-africa-internet/africa-set-to-top-1-billion-mobile-internet-connections-in-five-years-study-idUKKBN1D61H3>

Figure 3 Sourced from: <http://www.fao.org/3/a-i4635e.pdf>

Figure 4 Sourced from: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/604695/Press_Notice_March_2017.pdf

Figure 5 Sourced from: <http://www.visualcapitalist.com/extreme-water-shortages-are-expected-to-hit-these-countries-by-2040/>