

Surname	Centre Number	Candidate Number
Other Names		0



GCSE

4231/02



GEOGRAPHY
(Specification A)
HIGHER TIER
UNIT 1: Core Geography

MONDAY, 22 MAY 2017 – AFTERNOON

1 hour 45 minutes

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
1.	15	
2.	15	
3.	15	
4.	15	
5.	15	
6.	15	
Total	90	

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020001

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

Write your answers in the spaces provided in this booklet. Where the space is not sufficient for your answer, continue the answer at the back of the booklet, taking care to number the continuation correctly.

INFORMATION FOR CANDIDATES

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

You are reminded that assessment will take into account the quality of written communication used in your answers that involve extended writing.

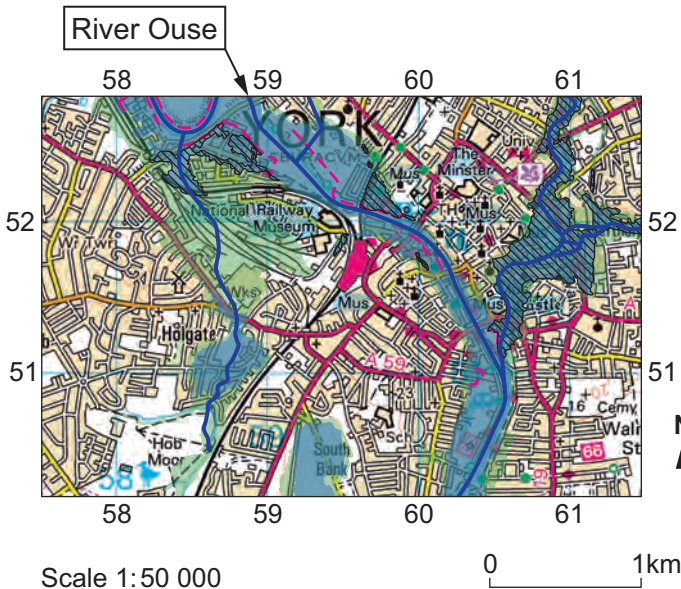
Answer all questions.

Theme 1 – Water

Examiner
only

1. (a) Study the OS map below.

York city centre



Key

- | | | | |
|--|-----------------------|--|---------------------------------|
| | Main river channels | | Areas with flood defences built |
| | High risk of flooding | | Medium risk of flooding |

Map symbols

TOURIST INFORMATION

- | | |
|--|---|
| | Camp site |
| | Caravan site |
| | Garden |
| | Golf course or links |
| | Information centre, all year / seasonal |
| | Nature reserve |
| | Parking, Park and ride, all year / seasonal |
| | Picnic site |
| | Selected places of tourist interest |
| | Telephone, public / motoring organisation |
| | Viewpoint |
| | Visitor centre |
| | Walks / Trails |
| | Youth hostel |

- (i) Underline the correct answer to complete the following sentences. [2]

Approximately **15%** / **35%** / **55%** of York city centre is at high or medium risk of flooding.

One grid square that has some areas with flood defences is **5851** / **5160** / **6051**.

- (ii) Explain **two** reasons why areas of York have a high risk of being flooded. Use evidence from the map to help you. [4]

1.

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2.

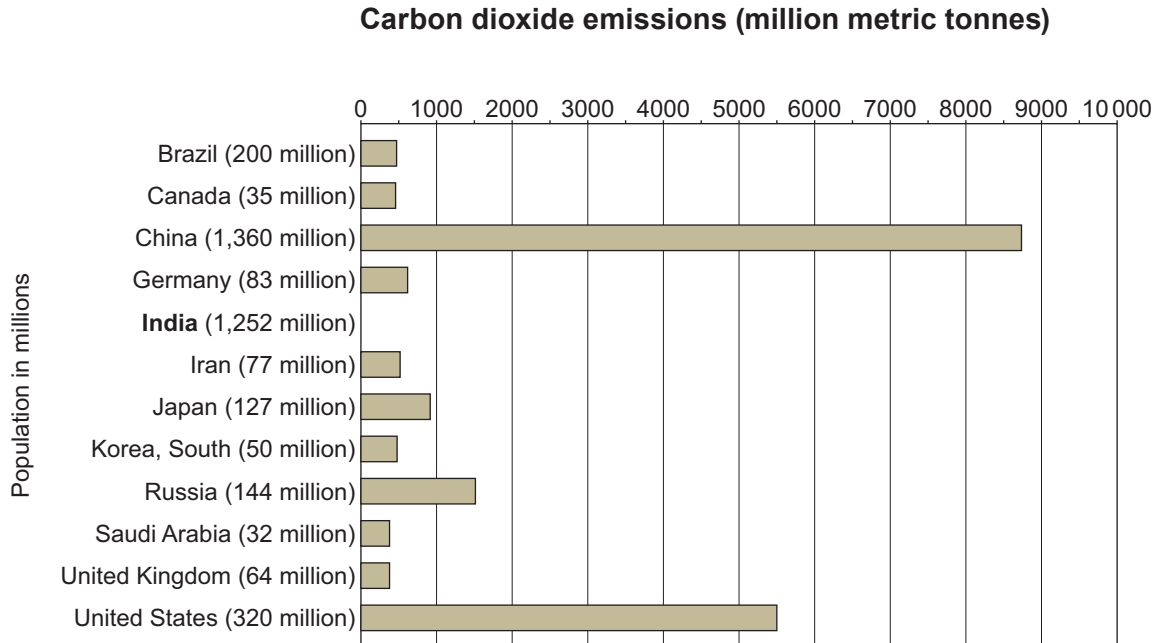
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Theme 2 – Climate Change

2. (a) Study the graph below.



- (i) Give the total carbon dioxide emissions of China.

[1]

..... million metric tonnes

- (ii) Complete the graph using the following information:

[1]

Country	carbon dioxide emissions (million metric tonnes)
India	1700

- (iii) Suggest reasons to explain the difference between the total emissions of the United States and India.

[3]

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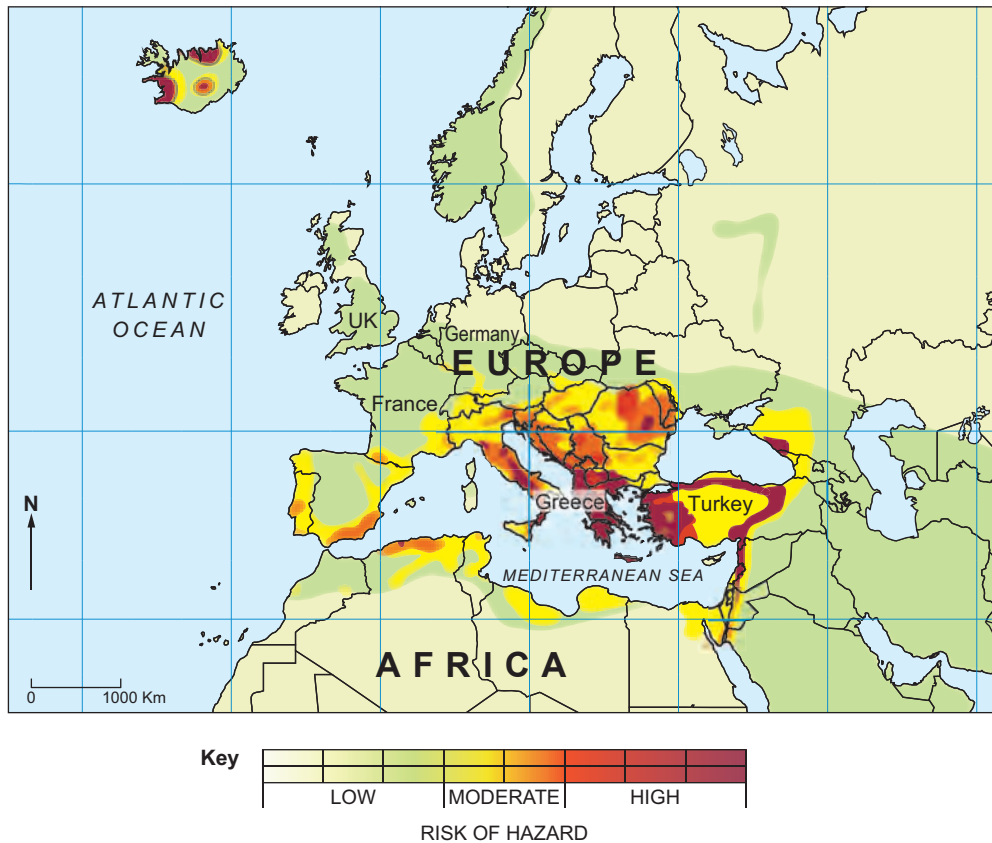
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Theme 3 – Living in an Active Zone

3. (a) Study the map below.

Earthquake hazard risk in Europe and North Africa



Describe the distribution of areas that are at a high risk of earthquake activity across Europe. Use map evidence only. [3]

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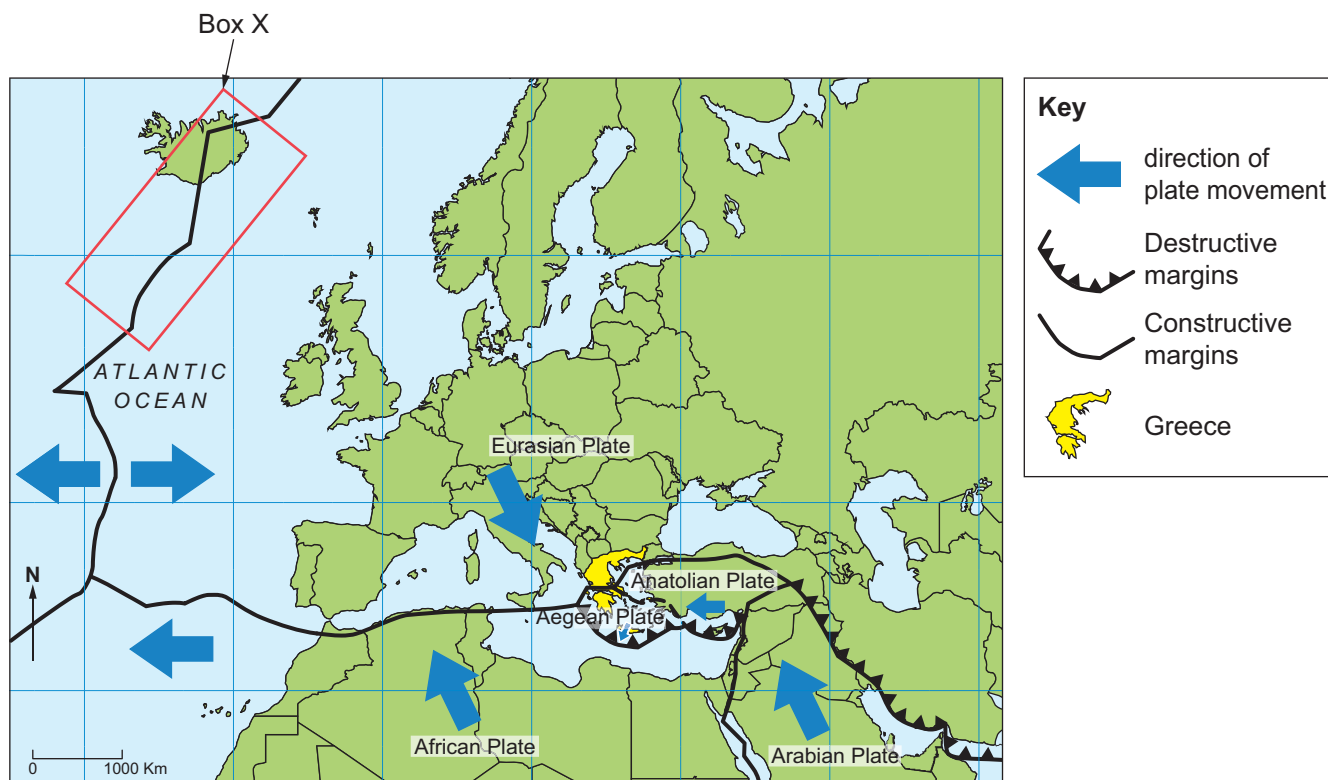
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(b) Study the map below.

Tectonic plates



- (i) Describe the formation of **one** landform found along plate margins such as the one seen in box X on the map. [3]

Landform:

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- (ii) Explain why the risk of earthquakes is high in Greece. Use evidence from the map to help you. [3]

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- (c) Explain why damage and loss of life from earthquakes is often less in countries with higher levels of development. [6]

Use one or more examples to help your answer.

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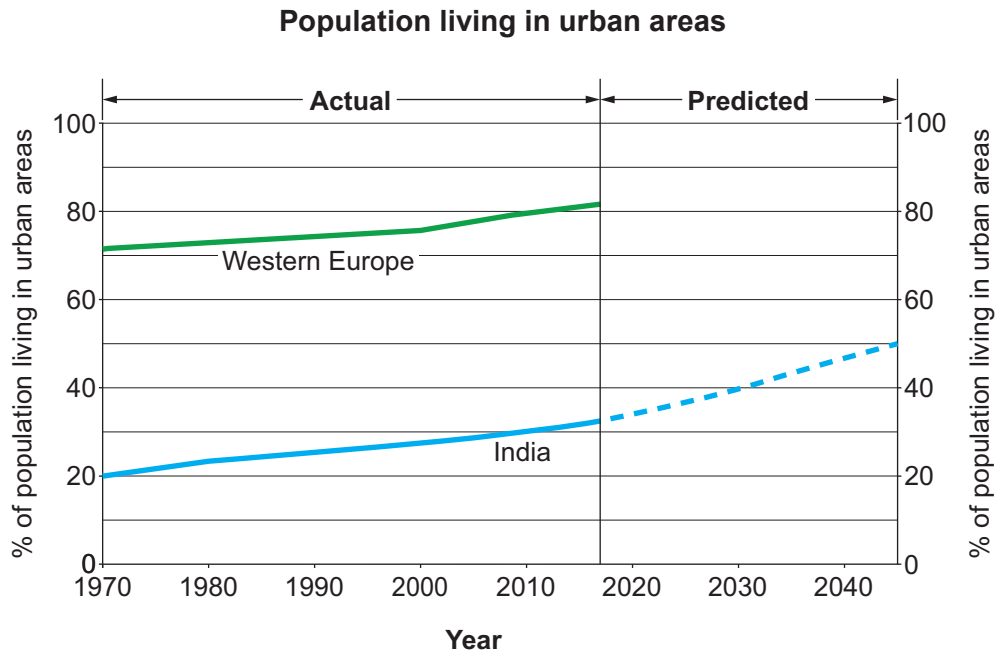
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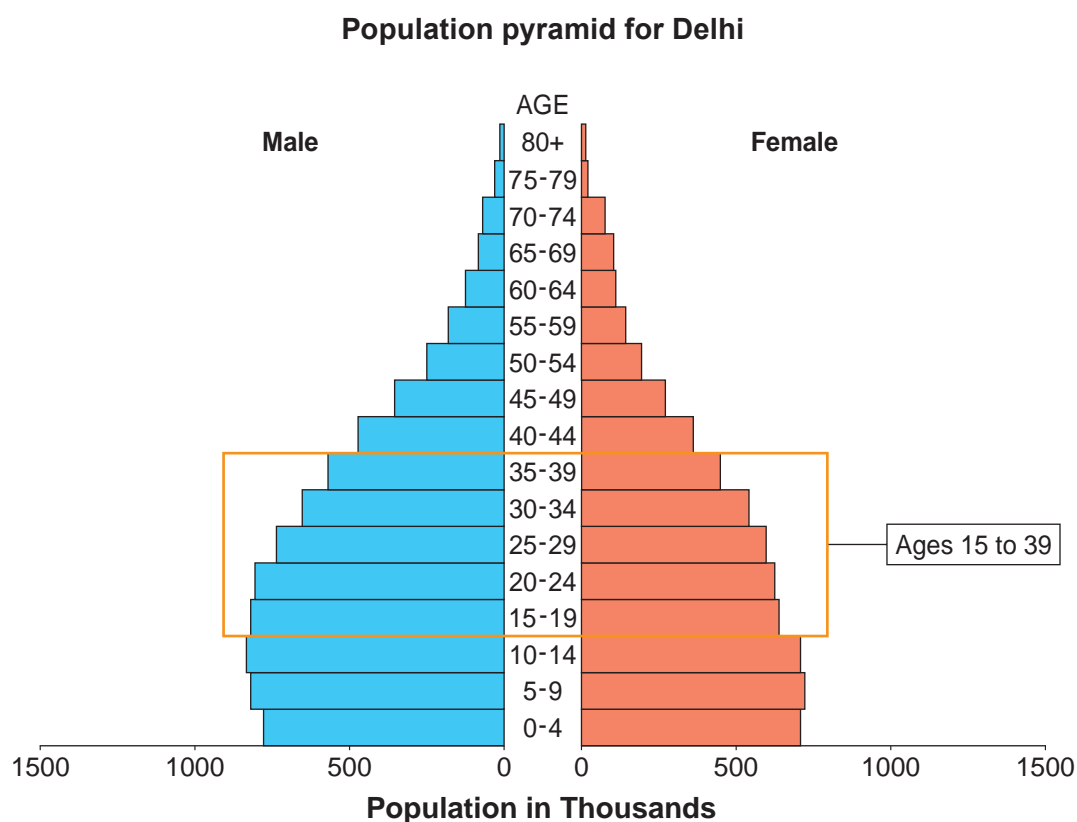
Theme 4 – Changing Populations

4. (a) Study the graph below.



- (i) Give the percentage of the population that live in urban areas in Western Europe in 2017. [1]
- %
- (ii) Calculate the predicted increase in the percentage of the population living in urban areas in India between 2017 and 2040. [1]
-
- (iii) What name is given to the process by which people move from one place to another, often in search of work or a better standard of living? [1]
-

- (b) Study the population pyramid below. It shows Delhi which is an urban area in India, South Asia.



- (i) Describe the main features of the structure of Delhi's population. [3]

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- (ii) Suggest reasons which would explain the structure of this pyramid between the ages of 15 and 39. [3]

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- (c) Explain why birth rates vary in different parts of the world. In your answer you must refer to Western Europe, South Asia and sub-Saharan Africa. [6]

Examiner
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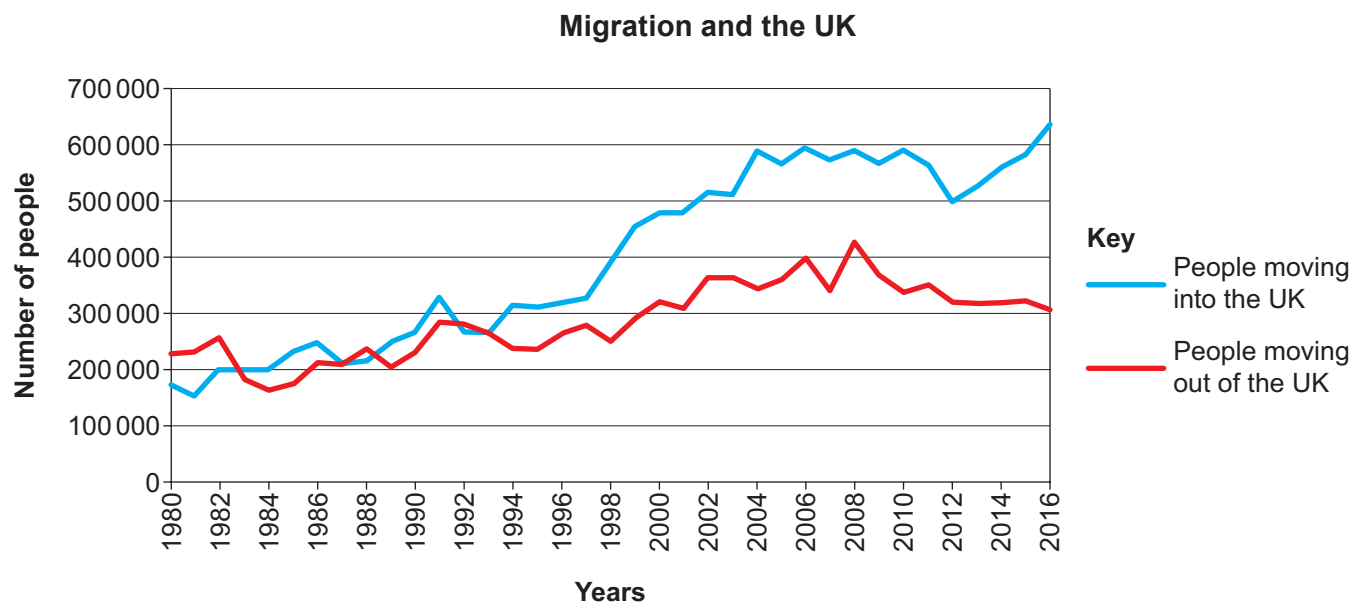
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Theme 5 – Globalisation

5. (a) Study the graph below.



(i) Describe the trend of migration **into** the UK since 1980.

[2]

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(ii) Explain why greater interdependence between countries has encouraged migration.

[3]

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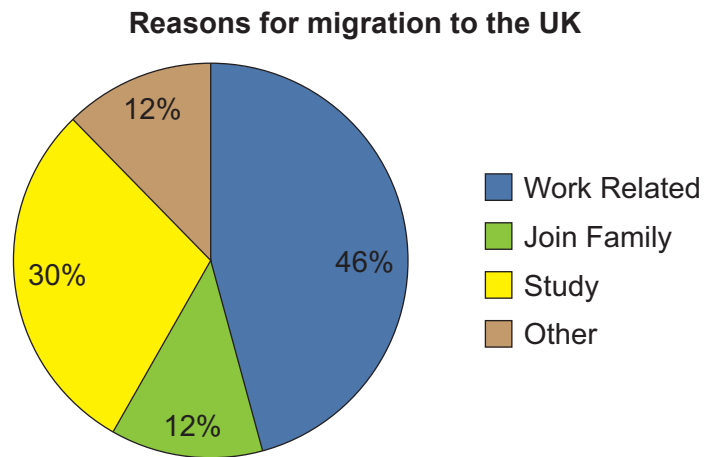
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(b) Study the pie chart below.



Describe the economic benefits of migration for the UK. Use evidence from the pie chart in your answer. [4]

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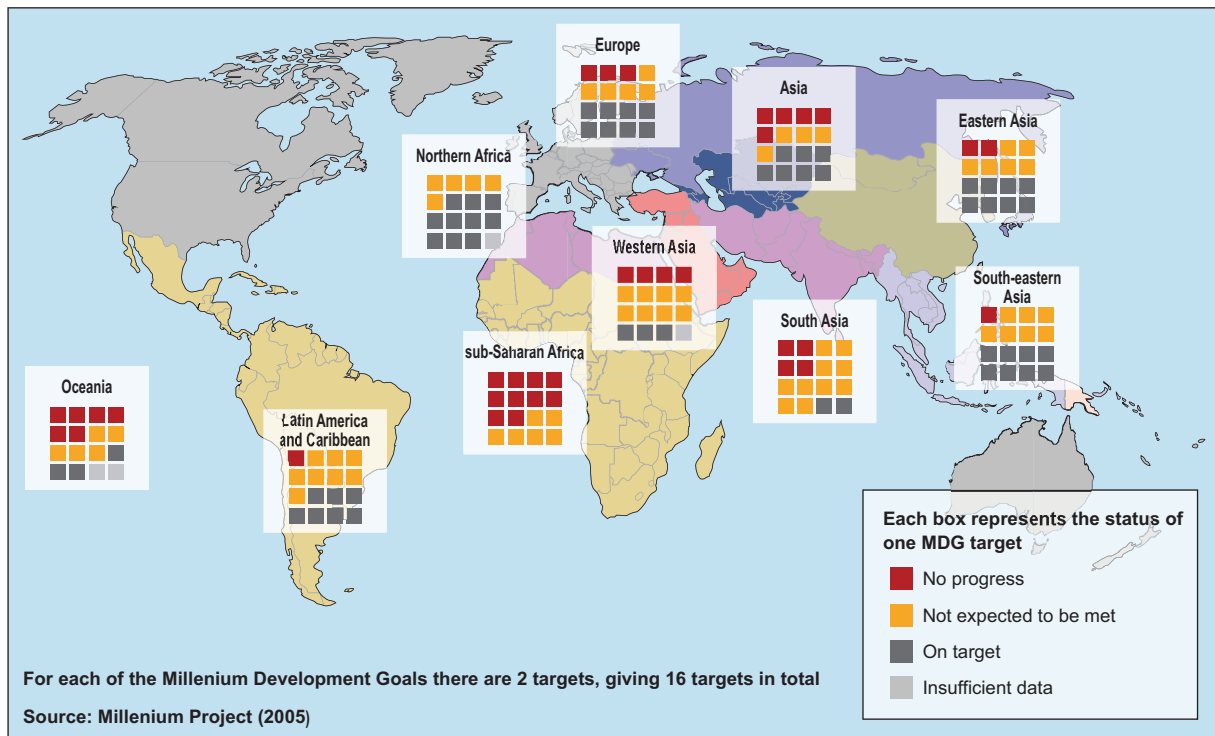
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- [6]

Theme 6 – Development

6. (a) There are 8 Millennium Development Goals (MDGs). Each has two targets. Progress towards meeting these targets is shown in the map below.

Trends towards meeting MDG targets



- (i) In Europe how many of the 16 targets are on target? Use map evidence only. [1]

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- (ii) Use the map to compare the progress made by South Asia and sub-Saharan Africa. [2]

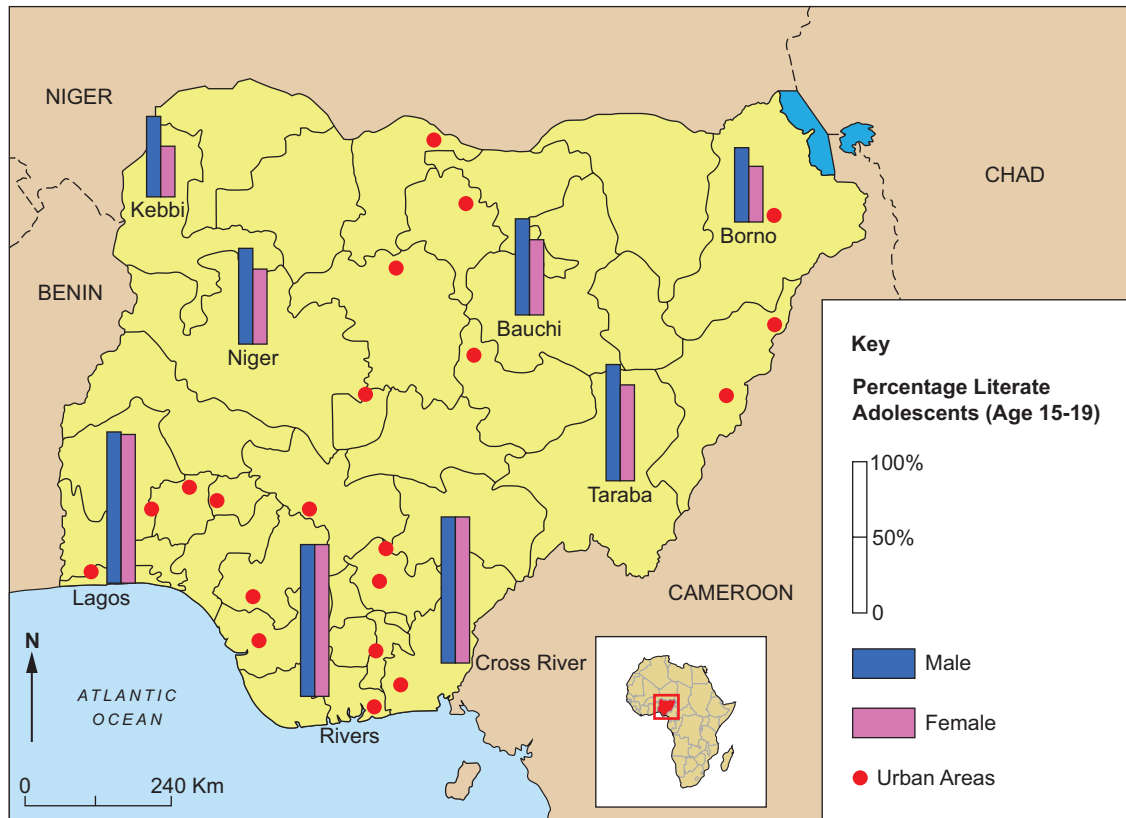
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- (b) Nigeria is a country in sub-Saharan Africa. Study the map below.

Literacy of 15 to 19 year olds in Nigeria



- (i) Describe the pattern of literacy in Nigeria.

[4]

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- (ii) Suggest **one** reason to explain the pattern you have described.

[2]

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[6]

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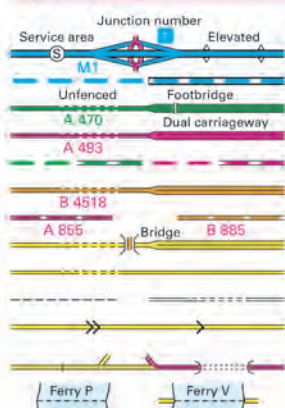
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OS Landranger® (1:50 000 scale)

Map symbols

ROADS AND PATHS



Not necessarily rights of way

Motorway (dual carriageway)

Motorway under construction

Primary Route

Main road

Primary Route / Main road under construction

Secondary road

Narrow road with passing places

Road generally more than 4m wide

Road generally less than 4m wide

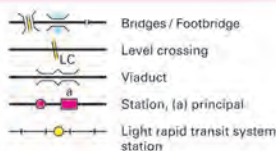
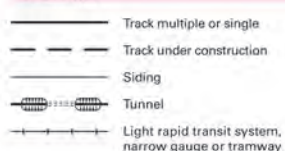
Path / Other road, drive or track

Gradient: 20% (1 in 5) and steeper, 14% (1 in 7) to 20% (1 in 5)

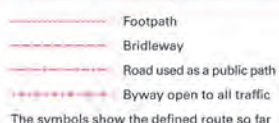
Gates / Road Tunnel

Ferry (passenger) / Ferry (vehicle)

RAILWAYS



PUBLIC RIGHTS OF WAY



The symbols show the defined route so far as the scale of mapping will allow. Rights of way are not shown on maps of Scotland.

The representation on this map of any other road, track or path is no evidence of the existence of a right of way

Danger Area Firing and Test Ranges in the area. Danger! Observe warning notices.

OTHER PUBLIC ACCESS

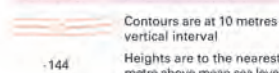


WATER FEATURES



HEIGHTS

1 metre = 3.2808 feet



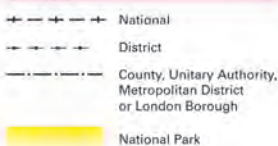
ROCK FEATURES



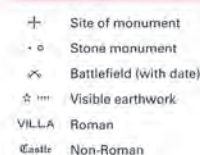
LAND FEATURES



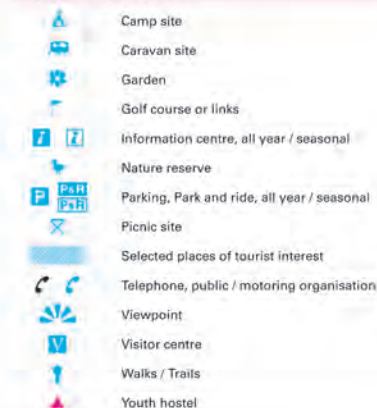
BOUNDARIES



ANTIQUITIES



TOURIST INFORMATION



ABBREVIATIONS

CG Coastguard	P Post office
CH Clubhouse	PC Public convenience (in rural areas)
MP Milepost	PH Public house
MS Milestone	TH Town Hall, Guildhall or equivalent