

CANDIDATE  
NAME

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CENTRE  
NUMBER

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**GEOGRAPHY**

Paper 1

**2217/12**

**May/June 2017**

**1 hour 45 minutes**

Candidates answer on the Question Paper.

Additional Materials:      Ruler  
   Calculator

**READ THESE INSTRUCTIONS FIRST**

Write your Centre number, candidate number and name in the spaces provided.

Write in dark blue or black pen.

You may use an HB pencil for any diagrams or graphs.

Do not use staples, paper clips, glue or correction fluid.

DO **NOT** WRITE IN ANY BARCODES.

Write your answer to each question in the space provided.

If additional space is required, you should use the lined pages at the end of this booklet. The question number(s) must be clearly shown.

Answer **three** questions, **one** from each section.

The Insert contains Fig. 3 and Photographs A, B and C for Question 2, and Photograph D for Question 6.

The Insert is **not** required by the Examiner.

Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

At the end of the examination, fasten all your work securely together.

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

Definitions

MEDCs – More Economically Developed Countries

LEDCs – Less Economically Developed Countries

This document consists of **27** printed pages, **1** blank page and **1** Insert.

Section A

Answer **one** question from this section.

QUESTION 1

- 1 (a) Study Fig. 1, which shows information about the population of Mexico (an LEDC) in 2000 and 2025 (estimated).

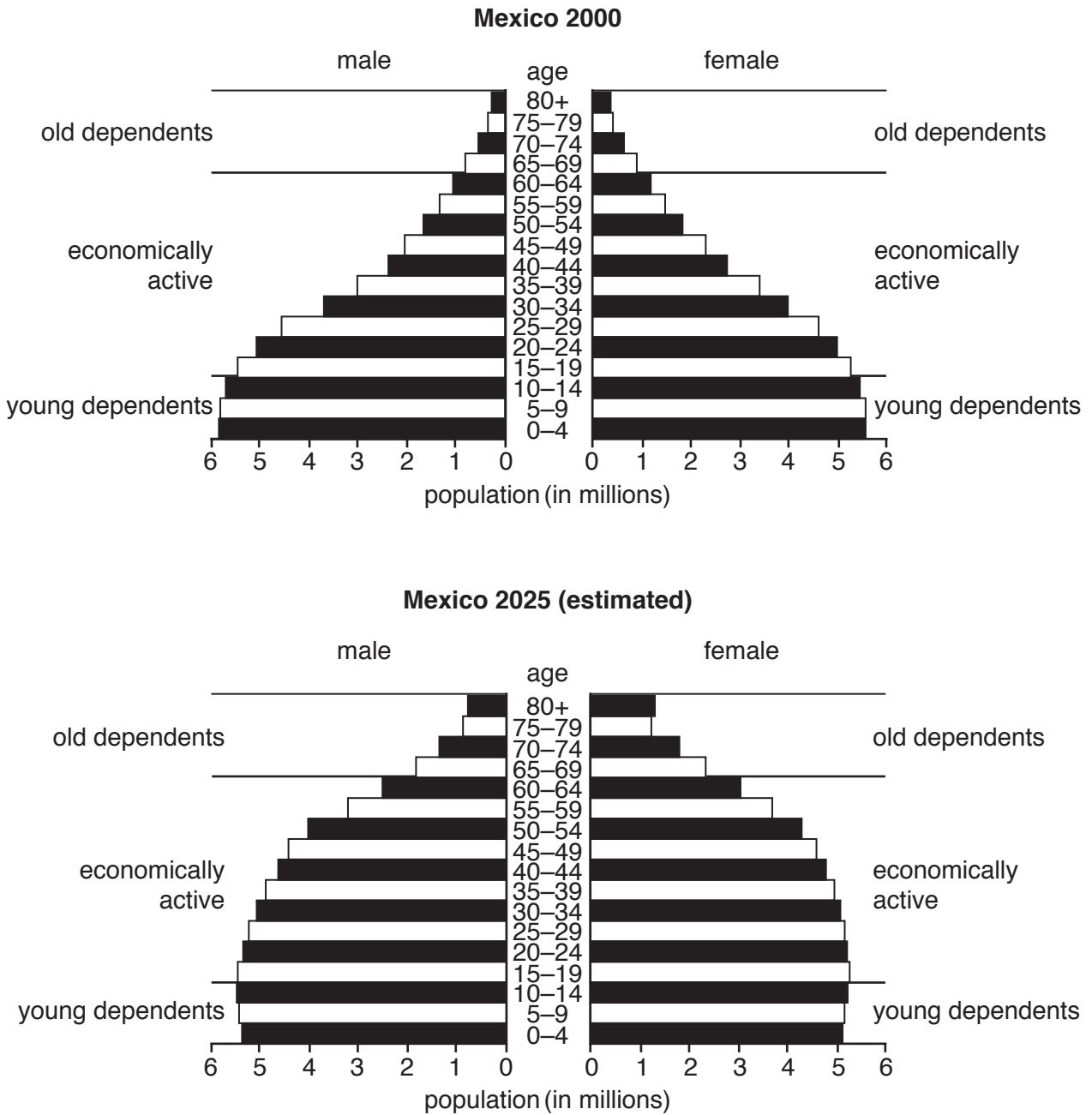


Fig. 1

(i) Estimate the number of young dependents in Mexico in 2000.

Choose from the list below and circle your answer.

6 million                      17 million                      32 million                      60 million                      [1]

(ii) Using Fig. 1, describe how the numbers of young and old dependents in Mexico are likely to change between 2000 and 2025.

Young dependents .....

.....

Old dependents .....

..... [2]

(iii) Give **three** reasons why the number of young dependents in LEDCs, such as Mexico, is high.

1 .....

.....

2 .....

.....

3 .....

..... [3]

(iv) Describe how the population structure of an MEDC is likely to be different from the population structure of LEDCs such as Mexico.

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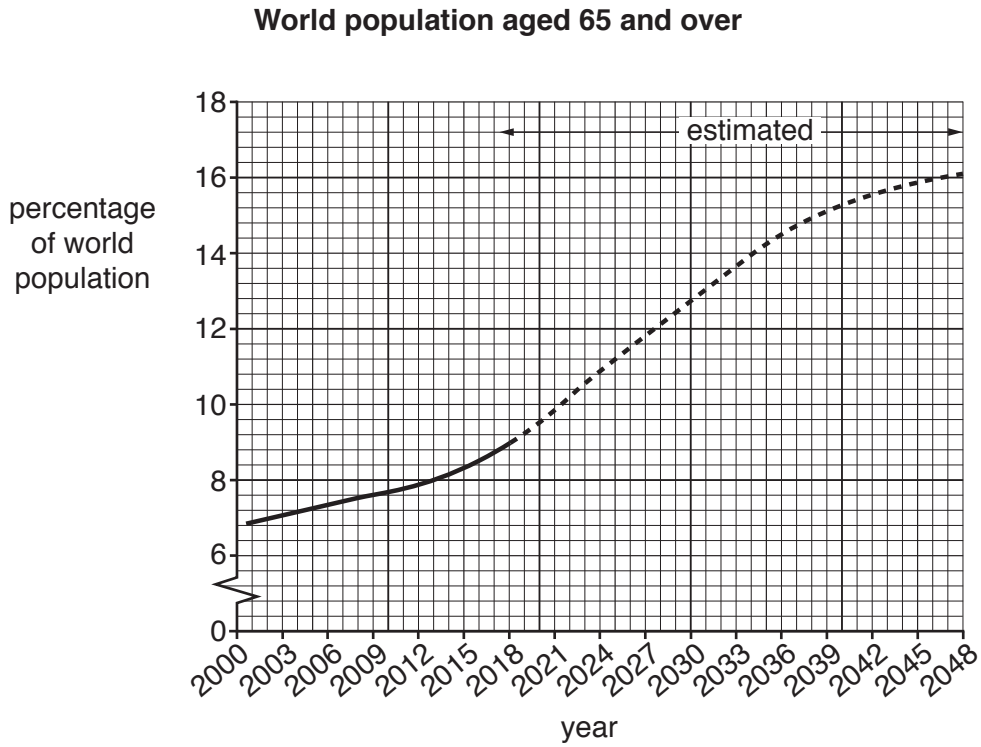
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..... [4]

(b) Study Fig. 2, which shows information about the increase in the percentage of the world population aged 65 and over between 2000 and 2048 (estimated).



**Fig. 2**

(i) Using Fig. 2 **only**, describe the changes in the rate of increase in the percentage of the world population aged 65 and over

from 2000 to 2012 .....

.....

from 2012 to 2039 .....

.....

from 2039 to 2048. ....

.....[3]





**QUESTION 2**

2 (a) Study Fig. 3 (Insert), a map showing selected land uses in Ipswich, an urban area in the UK (MEDC).

(i) Identify the main land use in Ipswich.

.....  
.....[1]

(ii) Suggest why area X is likely to have a higher building density than area Y.

.....  
.....  
.....  
.....[2]

(iii) Using Fig. 3 **only**, describe the distribution of industry in Ipswich.

.....  
.....  
.....  
.....  
.....  
.....  
.....[3]

(iv) Suggest reasons for the location of the industry labelled Z.

.....  
.....  
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.....[4]

(b) Study Photographs A, B and C (Insert), which show three different types of land use in the rural-urban fringe of cities.

(i) Identify the main land use in each of Photographs A, B and C.

Photograph A .....

Photograph B .....

Photograph C ..... [3]

(ii) Explain why land uses such as those shown in Photographs A, B and C are located in the rural-urban fringe.

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..... [5]





Section B

Answer **one** question from this section.

QUESTION 3

3 (a) Study Fig. 4, which shows a diagram of a volcano.

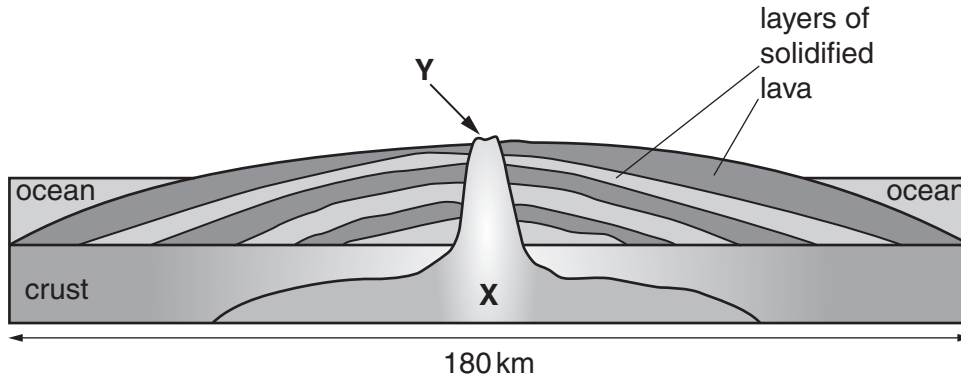


Fig. 4

(i) What type of volcano is shown in Fig. 4?

.....[1]

(ii) Identify the features labelled X and Y on Fig. 4.

X .....

Y .....

[2]

(iii) Describe **three** ways in which a strato-volcano (composite cone) would differ from the volcano shown in Fig. 4.

1 .....

.....

2 .....

.....

3 .....

.....[3]



- (b) Study Fig. 5, which shows information about the impacts of an earthquake that occurred in Nepal (an LEDC) on 25<sup>th</sup> April 2015.

The earthquake in Nepal, one of Asia's poorest countries, killed more than 9000 people and injured more than 23000.

The earthquake triggered an avalanche on Mount Everest, killing at least 19 people. Another huge avalanche occurred in the Langtang valley, where 250 people were reported missing.

Hundreds of thousands of people were made homeless with entire villages flattened, across many districts of the country. Centuries-old buildings were destroyed at tourist sites in the Kathmandu Valley, including temples, pagodas and historic towers. Workplaces were destroyed and many workers were not able to go to work, either because they were earthquake casualties or because they were dealing with its after effects. Many farmers affected by the earthquake were not able to plant their crops before the start of the rainy season.

Soldiers from the Nepalese Army were sent to the areas with the worst damage immediately after the earthquake. Heavy rainfall and landslides made rescue difficult and impassable roads, damaged communications and power networks also made it difficult to reach isolated areas. The Tribhuvan International Airport, serving Kathmandu, was closed immediately to commercial flights after the earthquake.

**Fig. 5**

- (i) Identify **one** impact of the earthquake in Nepal on each of the following:

the natural environment; .....

.....

the infrastructure; .....

.....

the economy. ....

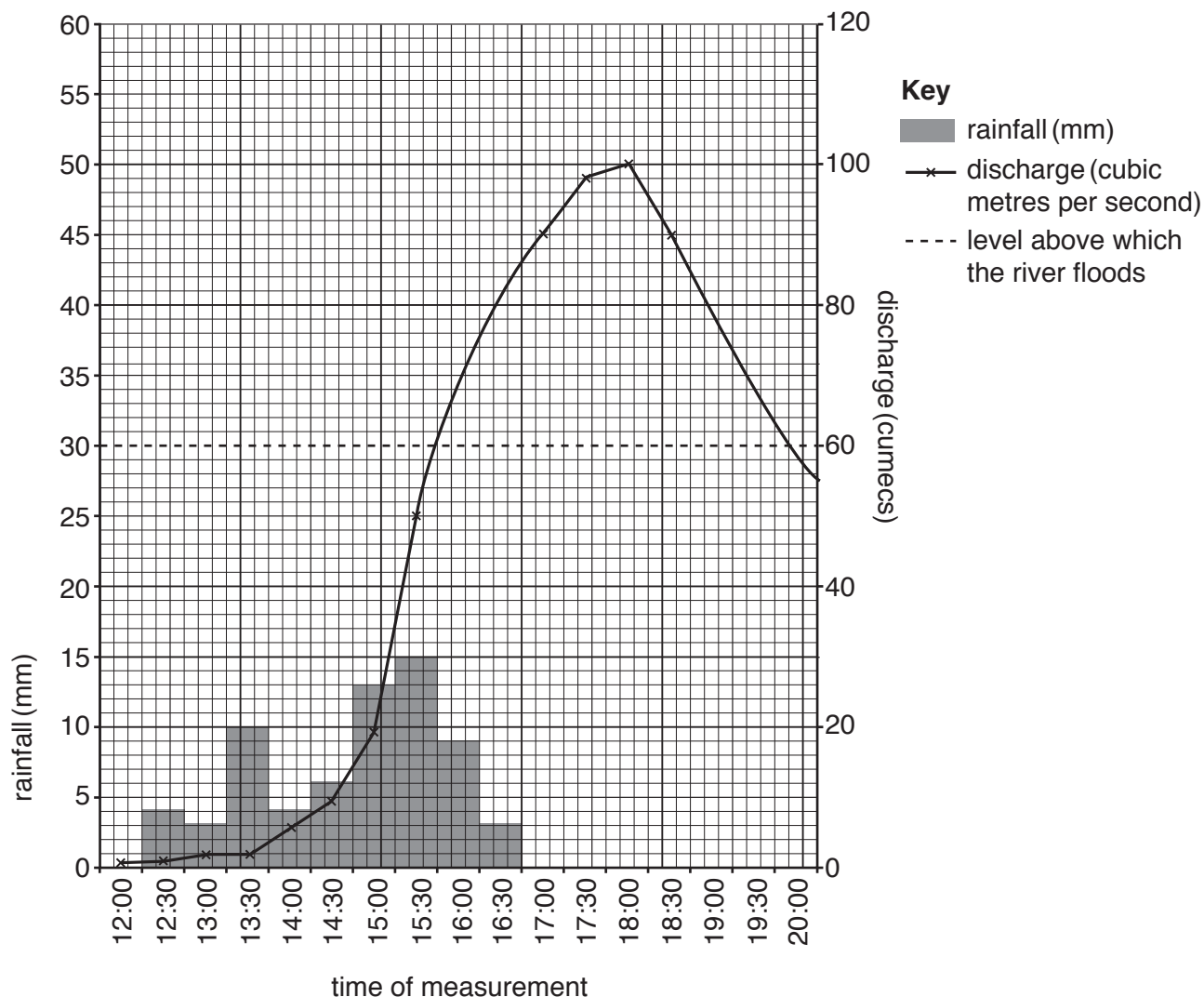
.....[3]





**QUESTION 4**

4 (a) Study Fig. 6, which shows a storm hydrograph.



**Fig. 6**

(i) River discharge is the amount of water flowing in a river.

Tick the **one** formula in the table below which shows how river discharge is calculated.

width × depth × speed of flow	<input type="checkbox"/>
precipitation × volume of river	<input type="checkbox"/>
speed of flow × amount of erosion	<input type="checkbox"/>
groundwater flow × overland flow	<input type="checkbox"/>

[1]

(ii) Identify from Fig. 6:

- the maximum rainfall during 30 minutes; ..... mm
- the time when the river was most likely to start flooding. ....

[2]

**(iii)** Explain why rivers sometimes continue to flood for many hours after the end of a period of heavy rain.

.....  
.....  
.....  
.....  
.....  
.....  
.....[3]

**(iv)** Explain why an increase in discharge of a river will influence the amount of erosion and transportation taking place.

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.....[4]



(b) Study Fig. 7, which shows information about drainage basins in Oregon, USA (an MEDC).

## Drainage Basin Protection Sought

Water agencies in Washington and Clackamas counties say they want more protection for their drainage basins from deforestation, especially the areas alongside rivers and close to watersheds.

The Bull Run drainage basin is completely protected from deforestation, but in other areas west of the Cascade Mountains, especially around the Clackamas river and its tributaries, many areas of forest have been cleared. This has devastated the natural environment and even residents of distant urban areas further downstream are facing increased problems as a result of deforestation.

**Fig. 7**

(i) What is meant by the following terms:

drainage basin; .....

.....

watershed; .....

.....

tributary? .....

..... [3]

(ii) Describe the problems for people and the natural environment in Oregon which may be caused by increased deforestation.

.....

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..... [5]



Section C

Answer **one** question from this section.

QUESTION 5

- 5 (a) Study Fig. 8, which shows information about the GNP per person and percentage of GNP from commercial farming in a number of countries.

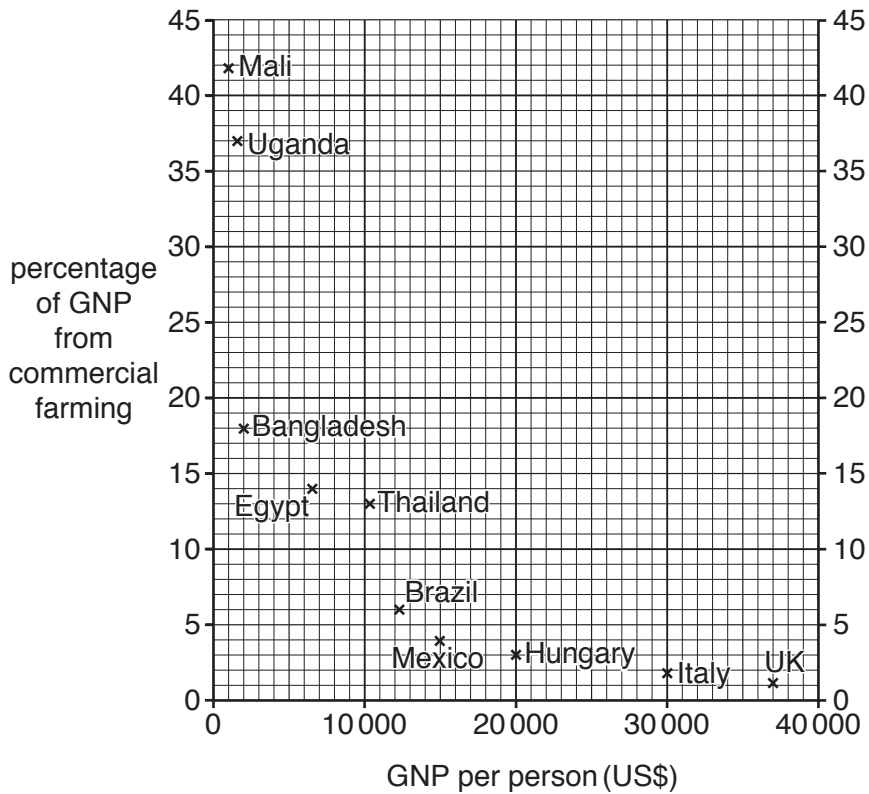


Fig. 8

- (i) Name a type of commercial farming.

.....[1]

- (ii) Using Fig. 8 **only**, describe the relationship between GNP per person and the percentage of GNP from commercial farming.

You should include data from Fig. 8 in your answer.

.....  
 .....  
 .....  
 .....  
 .....[2]







**QUESTION 6**

**6 (a)** Study Photograph D (Insert), which shows an industry.

**(i)** In which sector of industry are the buildings shown in Photograph D?

Choose from the words below and circle your answer.

Primary                  Secondary                  Tertiary                  Quaternary                  [1]

**(ii)** Describe **two** characteristics of the industrial buildings labelled **X** in Photograph D.

1 .....

2 ..... [2]

**(iii)** Explain how political factors influence the location of industry.

.....  
.....  
.....  
.....  
.....  
..... [3]

**(iv)** State and explain **two** other factors which are likely to influence the location of industry.

1 .....

2 .....

[4]









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