Cambridge International Examinations
Cambridge International General Certificate of Secondary Education

Cambridge IGCSE

CANDIDATE NAME	

CENTRE NUMBER						CANDIDATE NUMBER				
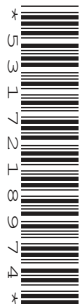
GEOGRAPHY **0460/22**

Paper 2 **February/March 2018**

1 hour 30 minutes

Candidates answer on the Question Paper.

Additional Materials: Ruler
Protractor
Plain paper
Calculator

1:25 000 Survey Map Extract is enclosed with this Question Paper.

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 the booklet. The question number(s) must be clearly shown.

Answer **all** questions.

The Insert contains Fig. 3.1 for Question 3 and Fig. 5.1 for Question 5.
The Survey Map Extract and the Insert are **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.

CAMBRIDGE
International Examinations

[Turn over

1   Study the map extract for Haukeland, Norway. The scale is 1:25 000.

(a) Fig. 1.1 shows some of the features in the north of the map extract around the lake of Haukelandsvatnet. Study Fig. 1.1 and the map extract, and answer the questions below.
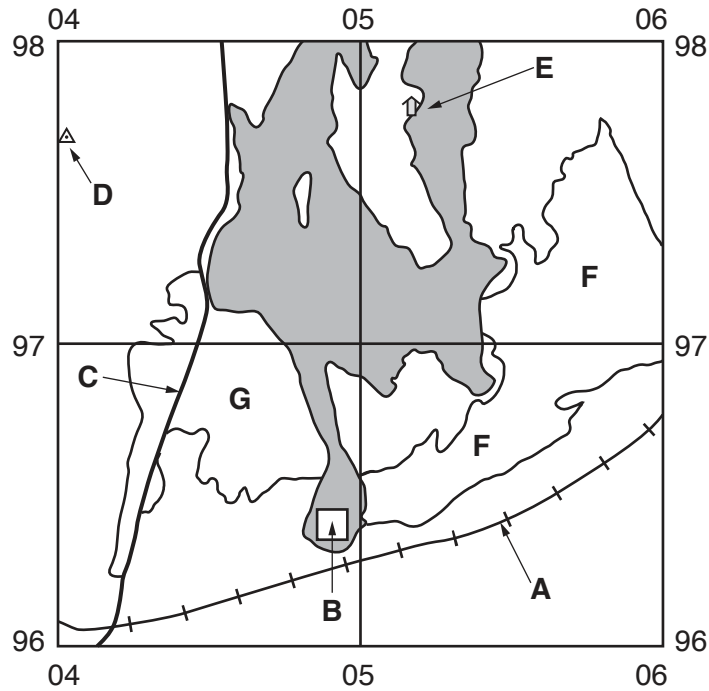
Fig. 1.1

Using the map extract, identify the following features shown on Fig. 1.1:

(i)   feature **A**; ....[1]

(ii)   activity **B**; ....[1]

(iii) the type of road at **C**; ....[1]

(iv) the height of the land at **D**; .... metres [1]

(v)   feature **E**; ....[1]

(vi) the land use at **F**; ....[1]

(vii) the land use at **G**. ....[1]

(b) Fig. 1.2 shows the position of some features in the south east of the map extract. Two contours have been marked.
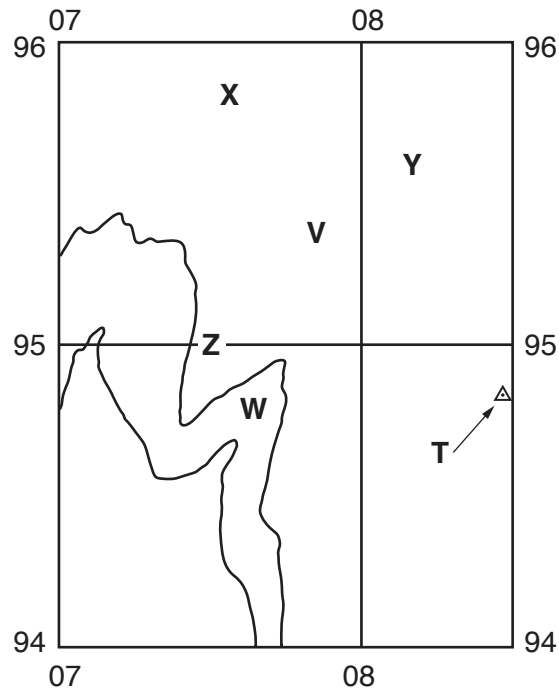
Fig. 1.2

Which letter, **V**, **W**, **X**, **Y** or **Z**, shows the position of a:

  (i) lake; .... [1]

 (ii) marsh; .... [1]

(iii) valley; .... [1]

 (iv) ridge? .... [1]

(c) Give the six-figure grid reference of the feature at **T** on Fig. 1.2.

   .... [1]

(d) Look at the railway which runs from the western edge of the map to the station at Haukeland (Haukeland Stasjon) at 045969.

(i) Measure the distance in metres along this part of the railway. Tick **one** correct answer below.

	Tick (✓)
2000	
2400	
2800	
3200	

[1]

(ii) Describe the route of this part of the railway.

....

....

....

....

....

....

....

....

....[3]

(e) Fig. 1.3 is a cross section along northing 960 from 050960 to 080960.
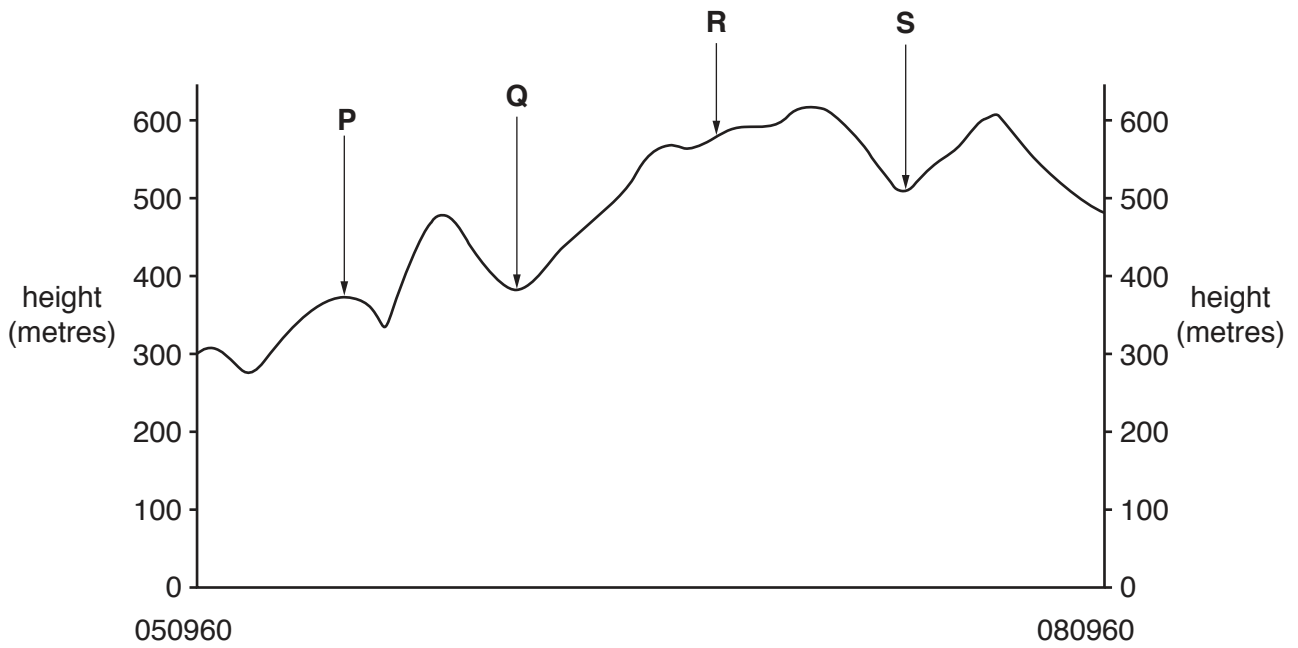
Fig. 1.3

Which letter, **P**, **Q**, **R** or **S**, shows the position of a:

(i) footpath; .... [1]

(ii) forest; .... [1]

(iii) river flowing north; .... [1]

(iv) river flowing south? .... [1]

[Total: 20]

2 The United Nations publishes the Human Development Index (HDI) which shows the level of development of each country. This is shown on Fig. 2.1.
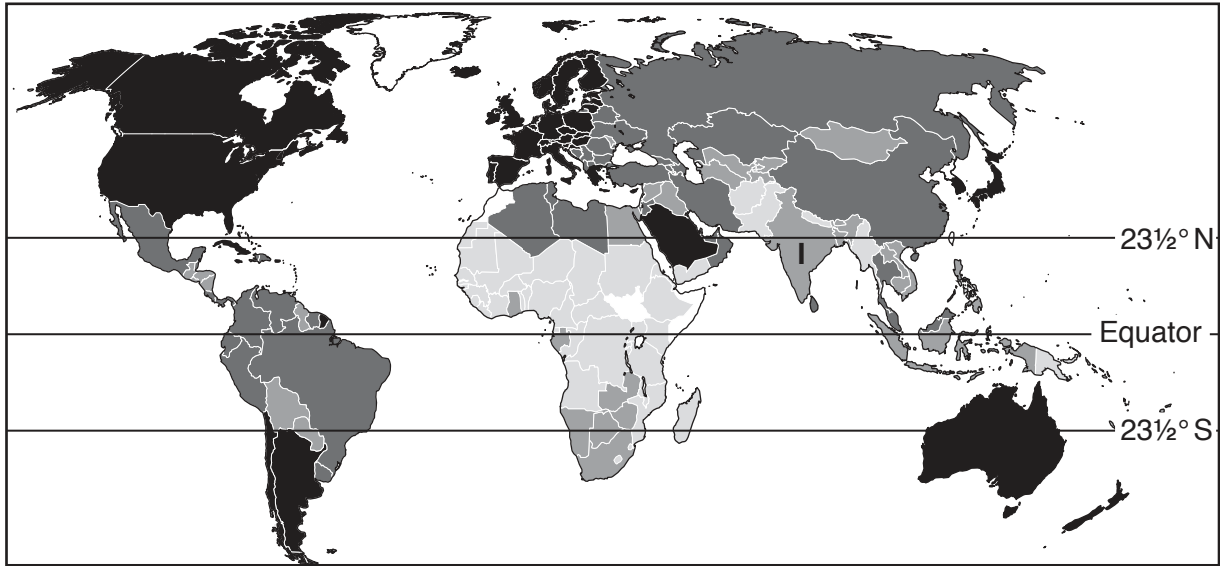
Key   Human Development Index (HDI)

■ very high   ▨ medium   □ data unavailable

▨ high   ▨ low   **I** = India

Fig. 2.1

(a) Using Fig. 2.1, state India's HDI. .... [1]

(b) (i) Which **one** of the following statements describes the HDI of countries in **Asia**? Tick **one** box below.

	Tick (✓)
mostly high	
mostly very high	
none are low	

[1]

(ii) Which **one** of the following statements describes the HDI of countries in **Africa**? Tick **one** box below.

	Tick (✓)
all are low	
mostly low	
none are high	

[1]

(iii) Which **one** of the following statements describes the HDI of countries **in the tropics** (between $23\frac{1}{2}$ °N and $23\frac{1}{2}$ °S)? Tick **one** box below.

	Tick (✓)
mostly high	
none are high	
mostly low and medium	

[1]

(c) Fig. 2.2 shows how incomes have risen in India between 1980 and 2012. This is shown by Gross National Income per capita (GNI).
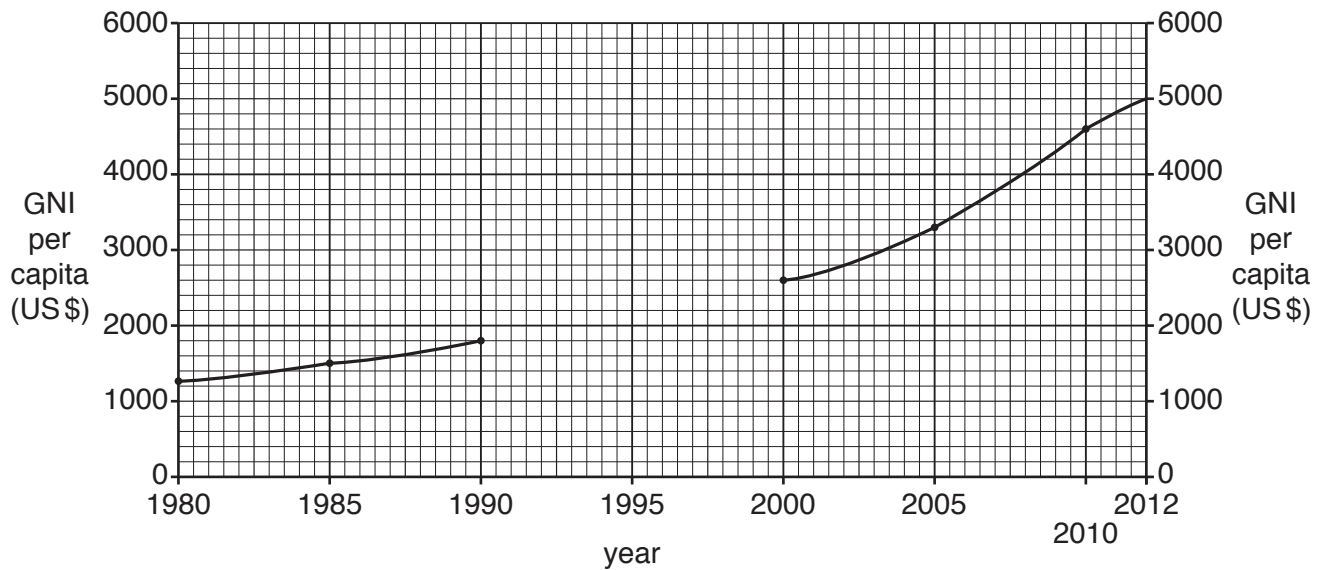
Fig. 2.2

(i) India's GNI per capita in 1995 was 2100 US$. **Plot this information** to complete the graph on Fig. 2.2. [1]

(ii) During which period did incomes in India increase the most? Tick **one** box below.

	Tick (✓)
1980 to 1990	
1990 to 2000	
2000 to 2010	

[1]

(iii) Use Fig. 2.2 to complete the table below to show the increase in India's GNI per capita between 1980 and 2012.

	GNI per capita (US$)
2012	....
1980	1268
increase	....

[1]

(d) The Human Development Index (HDI) is a composite index based on:

- incomes (GNI per capita)
- education
- life expectancy.

Between 1980 and 2012, India's HDI has not risen as rapidly as incomes. Suggest why.

....

....

....[1]

[Total: 8]

3 Fig. 3.1 (Insert) is a photograph which shows two housing areas in Cape Town, South Africa. One area is in the foreground and the other area is in the background.

For each area, describe the houses.

Houses in the foreground of the photograph (area **X**)

....

....

....

....

....

....

....

....

....

Houses in the background of the photograph (area **Y**)

....

....

....

....

....

....

....

....

....

[Total: 8]

4 Study Fig. 4.1, which shows plates, plate margins and directions of plate movement.
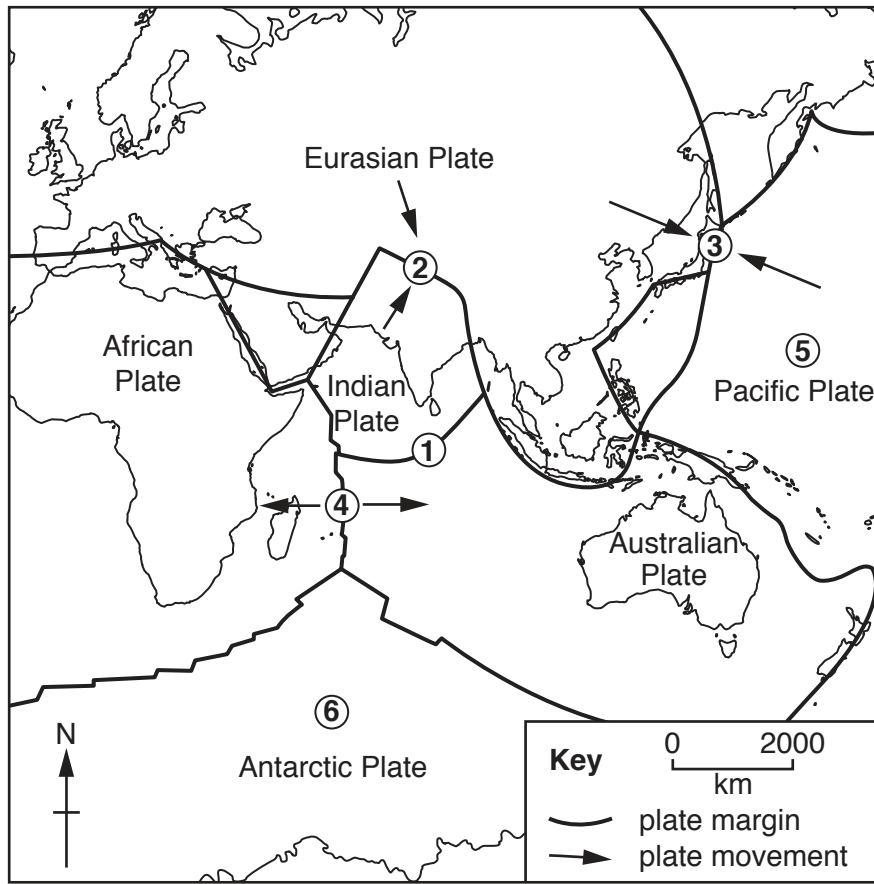
Fig. 4.1

(a) Six places, **1−6**, are marked on the map. For each of the following questions write **one** number in each box. You may use any of the numbers **1−6** once, more than once or not at all.

Which number on the map shows a place where:

(i)   a plate is being destroyed; [ ]   [1]

(ii) sea floor spreading is taking place; [ ]   [1]

(iii) there are no major earthquakes; [ ]   [1]

(iv) there are volcanoes; [ ]   [1]

(v)   there is a chain of fold mountains? [ ]   [1]

(b) Name each of the following:

    (i) the reservoir of molten rock beneath an active volcano;

      ....[1]

    (ii) a type of volcano formed from layers of lava and ash;

      ....[1]

   (iii) a type of wide, gently sloping volcano formed mainly from basalt lava.

      ....[1]

[Total: 8]

5 **(a)** Study Fig. 5.1 (Insert), which is a photograph which shows a hot desert area in Africa. Using evidence from Fig. 5.1 **only**, describe the features and the distribution of the vegetation shown in the photograph.

....

....

....

....

....

....

....

....

....

....

....

....

....[5]

(b) Explain how the vegetation of hot deserts has adapted to:

   (i) reach water deep underground;

   ....

   ....

   ....[1]

  (ii) reduce water loss by transpiration;

   ....

   ....

   ....[1]

 (iii) catch rain before it evaporates.

   ....

   ....

   ....[1]

[Total: 8]

6 (a) Table 6.1 shows the employment structure of the Maldives, a group of islands with a large tourist industry.

Table 6.1

Sector	Employment (%)
primary	4
secondary	23
tertiary	73

Use information from Table 6.1 to **complete Fig. 6.1** below. [2]

Key

primary

secondary

tertiary
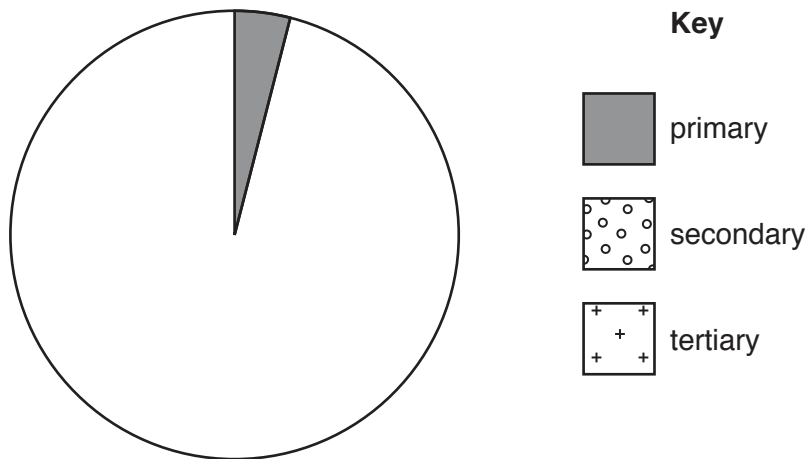
Fig. 6.1

(b) Fig. 6.2 shows features of the development of the tourist industry on a tropical island.

Most investment is by transnational tourist companies

Some hotels are staffed by foreign workers

Cruise ships begin to visit the port

tropical island

Some companies start tours of the coast and coral reefs

Hotels are built along the coast
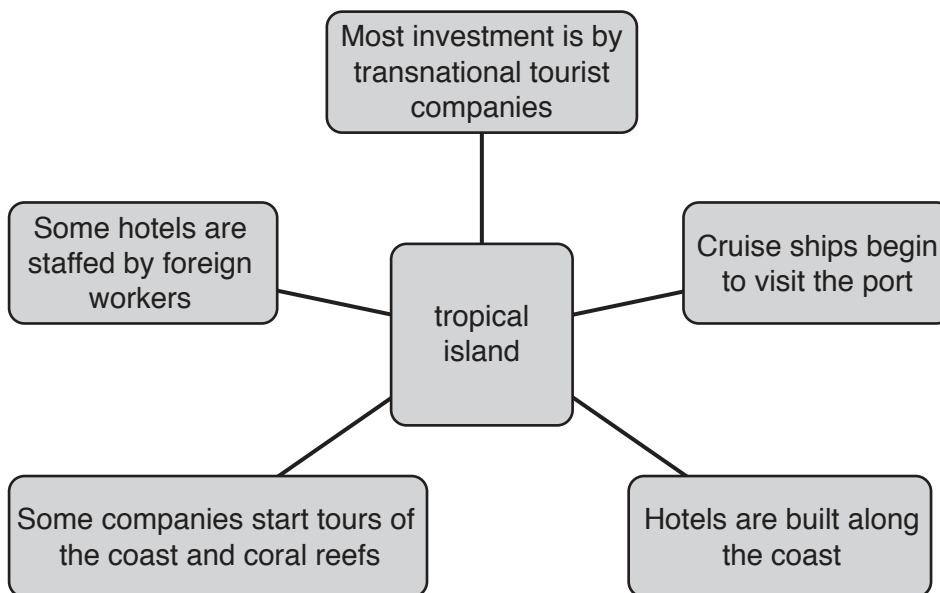
Fig. 6.2

Tourism is likely to have advantages and disadvantages for the island and its people. **Using information from Fig. 6.2** explain in your own words:

(i) **two** possible economic advantages;

1 ....

....

2 ....

....[2]

(ii) **two** possible economic disadvantages;

1 ....

....

2 ....

....[2]

(iii) **one** possible environmental benefit;

....

....[1]

(iv) **one** possible environmental problem.

....

....[1]

[Total: 8]

Additional Pages

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

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