UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
International General Certificate of Secondary Education

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| CANDIDATE NAME | | | | | | | | | |
| CENTRE NUMBER | | | | | | CANDIDATE NUMBER | | | | |



**GEOGRAPHY** **0460/21**

Paper 2 **October/November 2010**

**1 hour 30 minutes**

Candidates answer on the Question Paper.

Additional Materials: Ruler
Protractor
Plain paper

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 a soft pencil for any diagrams, graphs or rough working.
Do not use staples, paper clips, highlighters, glue or correction fluid.
DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.
The Insert contains Photograph A for Question 5.
Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

The Survey Map Extract and the Insert are **not** required by the Examiner.

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.

This document consists of **14** printed pages and **2** blank pages and **1** Insert.

**1** Study the map extract which is for Port Louis, Mauritius. The scale is 1:25 000.

For Examiner's Use

**(a)** Fig. 1 shows part of the coastal area of the map. Study Fig. 1 and the map extract and answer the questions on the opposite page.

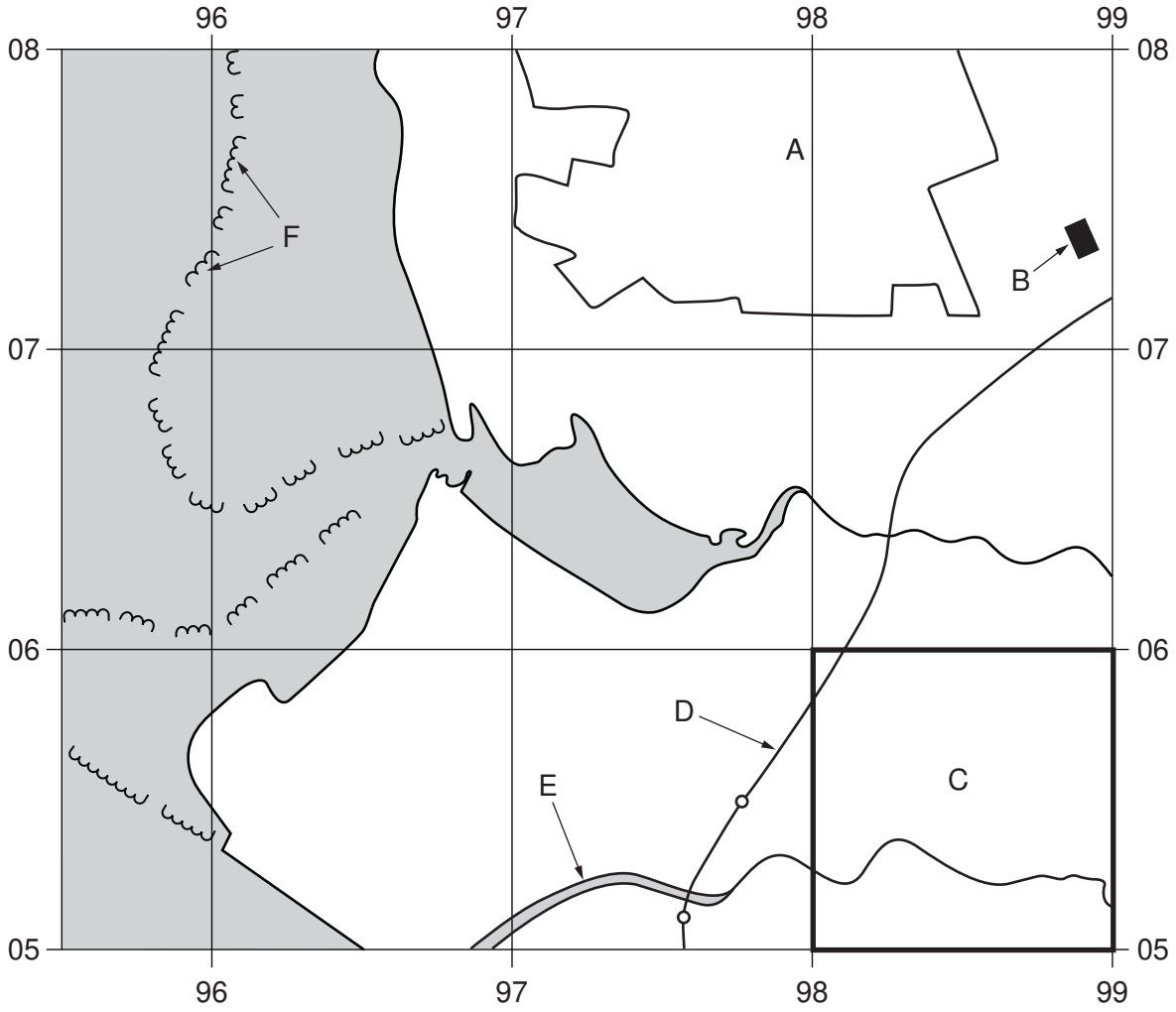



**Fig. 1**

Identify the following features shown on Fig. 1.

For Examiner's Use

**(i)** the plantation crop in area A;

.....

**(ii)** the named or public building at B;

.....

**(iii)** **two** services or functions in grid square C;

.....

**(iv)** the type of road at D;

.....

**(v)** the name of river E;

.....

**(vi)** feature F in the ocean.

..... [6]

**(b)** Fig. 2 is a cross section drawn from 975038 to 005038 through Priest Peak.

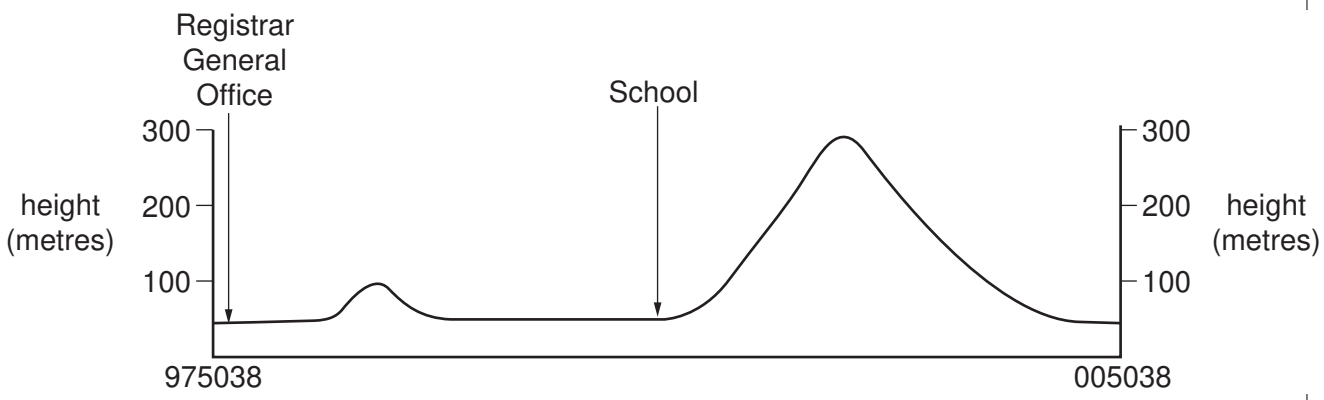



**Fig. 2**

Using labelled arrows, mark the following features on Fig. 2:

**(i)** the Citadel;

**(ii)** Priest Peak;

**(iii)** a power line. [3]

**(c)** The Port Louis area is an important commercial port in Mauritius.

*For Examiner's Use*

**(i)** State **two** features shown on the map which suggest that the area is a port.

1 .....

2 ..... [2]

**(ii)** Using evidence from the map extract, describe **three** natural advantages of the area for the development of a port.

1 .....

.....

2 .....

.....

3 .....

..... [3]

**(d)** **(i)** Find the CBD (Central Business District) of Port Louis. State the **four** figure grid reference of the square containing the CBD.

..... [1]

**(ii)** State the meaning of the map symbol shown at 986029.

..... [1]

**(e)** Fig. 3 shows the area around Quoin Bluff. The area shaded is over 100 metres above sea level.

For Examiner's Use

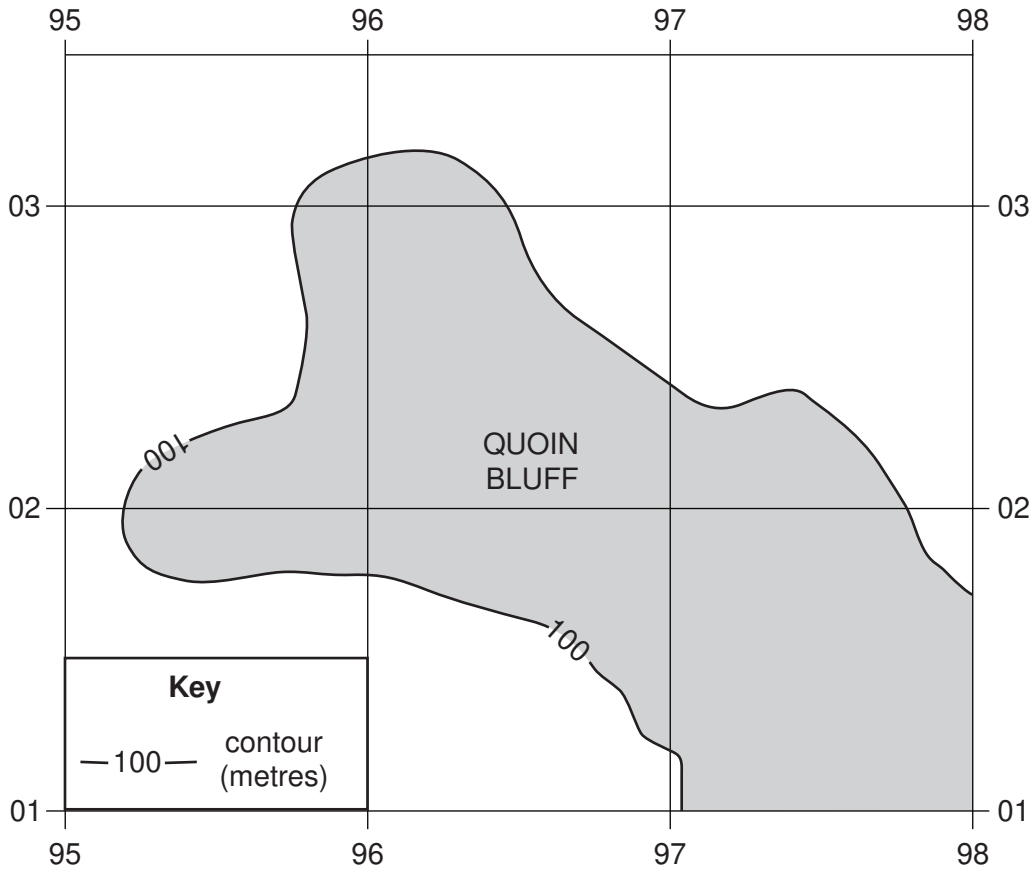



**Fig. 3**

Describe the relief of the area shaded on Fig. 3.

.....

.....

.....

.....

.....

.....

.....

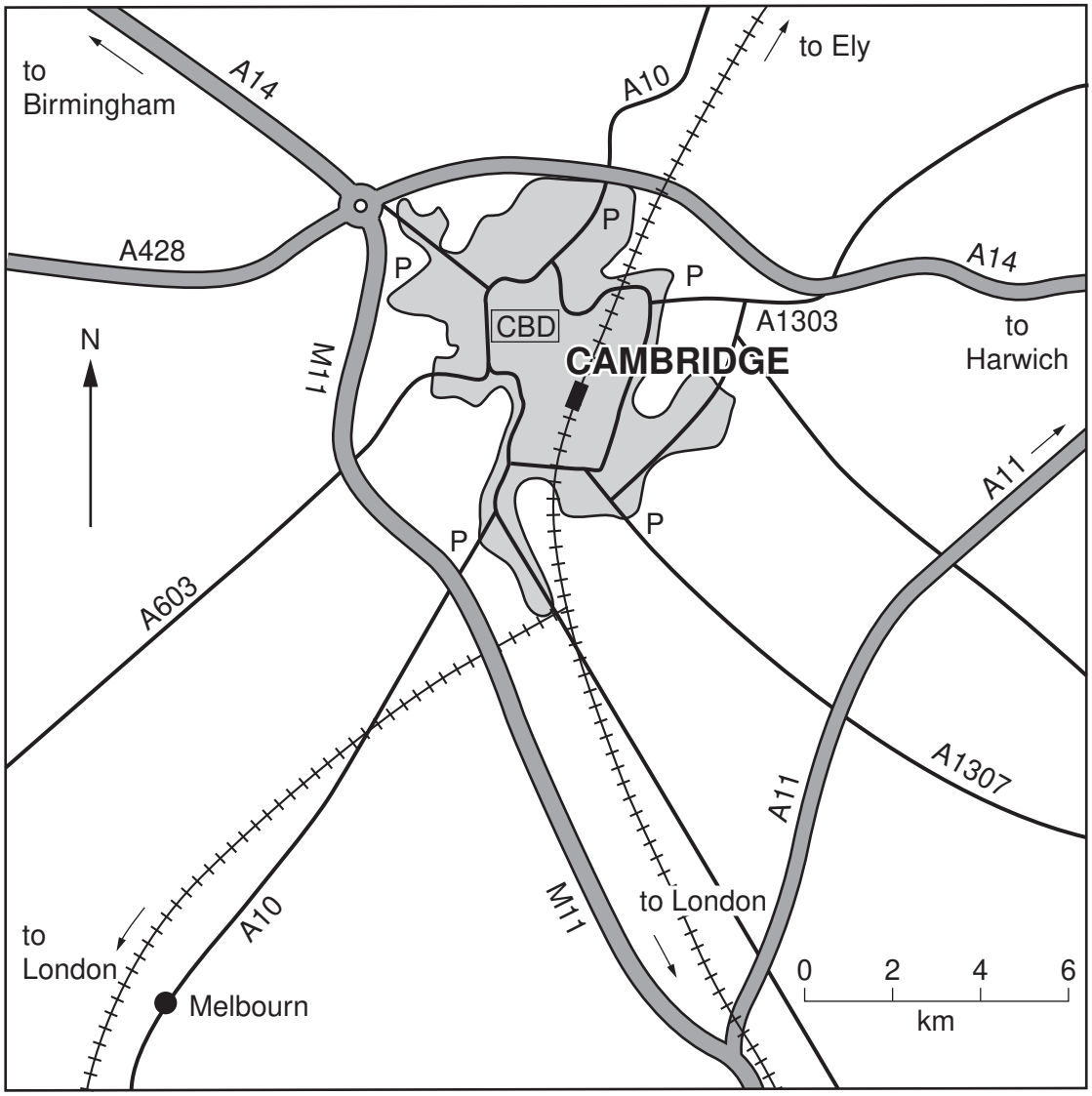
..... [4]

[Total: 20 marks]

For Examiner's Use

**2** The city of Cambridge in the UK lies close to important transport routes. People commute to work in the CBD from the suburbs and surrounding villages. The city suffers from traffic congestion.

Fig. 4 below shows features of the transport routes in and around Cambridge.




**Key**

| | |
|---|---|
| motorway and dual carriageway | |
| other main road | |
| P car park with bus to CBD | built up area |
| CBD central business district | railway and station |

**Fig. 4**

**(a)** What features, shown on Fig. 4, help reduce traffic congestion for long distance travellers who do **not** wish to visit Cambridge?

.....

.....

.....

..... [2]

**(b)** **(i)** Find the village of Melbourn on Fig. 4. A commuter travels from Melbourn to Cambridge CBD.

Estimate the distance, to the nearest kilometre, that the commuter travels.

..... kilometres

State the compass direction in which the commuter travels.

..... [2]

**(ii)** Describe and give a reason for the location of the car parks shown on Fig. 4.

.....

.....

.....

.....

.....

..... [3]

**(c)** Suggest **one** way of reducing traffic congestion caused by commuters from the suburbs of Cambridge.

.....

.....

..... [1]

[Total: 8 marks]

**3** Study Fig. 5, which shows the Earth's tectonic plates and plate margins and Fig. 6, which shows the world distribution of active volcanoes.

*For Examiner's Use*

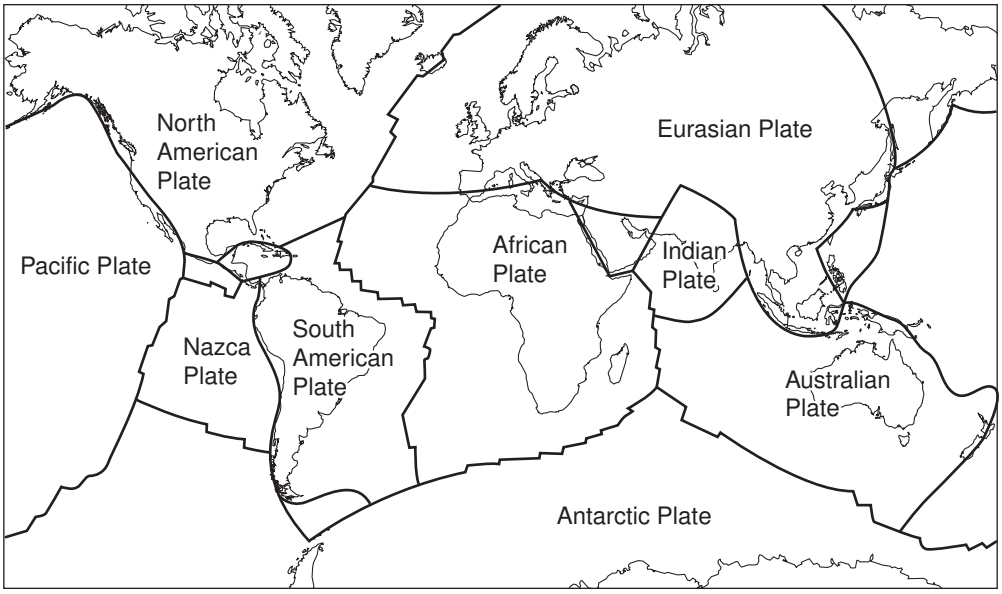



**Fig. 5**

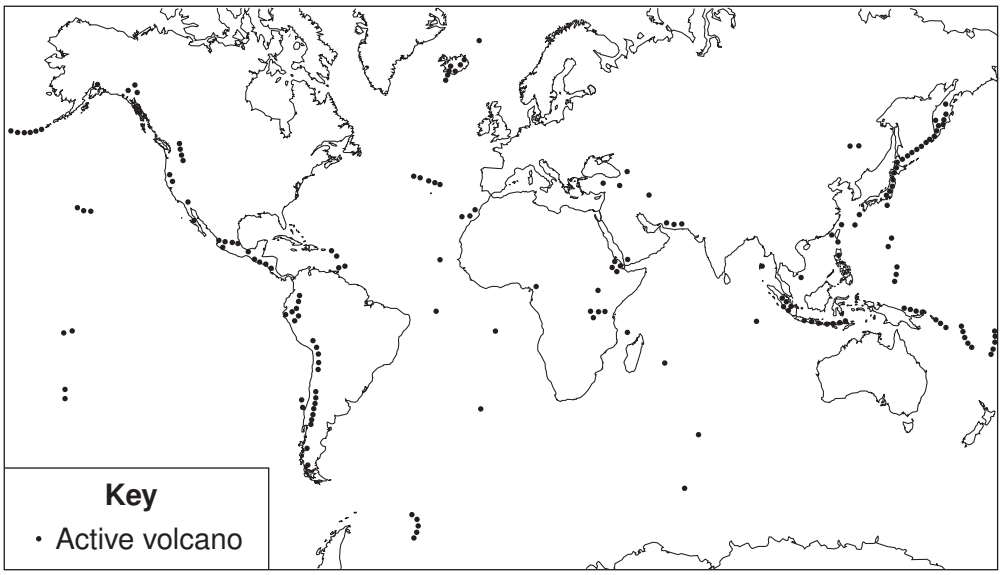



**Fig. 6**

**(a)** Using arrows, as shown below, label on Fig. 5, a plate margin where:

**(i)** plates are moving away from each other (← →);

**(ii)** plates are moving towards each other (→ ←). [2]

**(b)** Which **two** of the following statements about active volcanoes are correct? Tick only **two** statements.

For Examiner's Use

| Statement | Tick |
|---|---|
| They are mostly found in the centres of plates | |
| They are mostly found at plate margins | |
| They are found at every plate margin | |
| They may be found in the centres of plates | |
| They are only found at plate margins | |

[2]

**(c)** Fig. 7 is a map showing some of the effects of the eruption of Mount St Helens, USA, in May 1980.

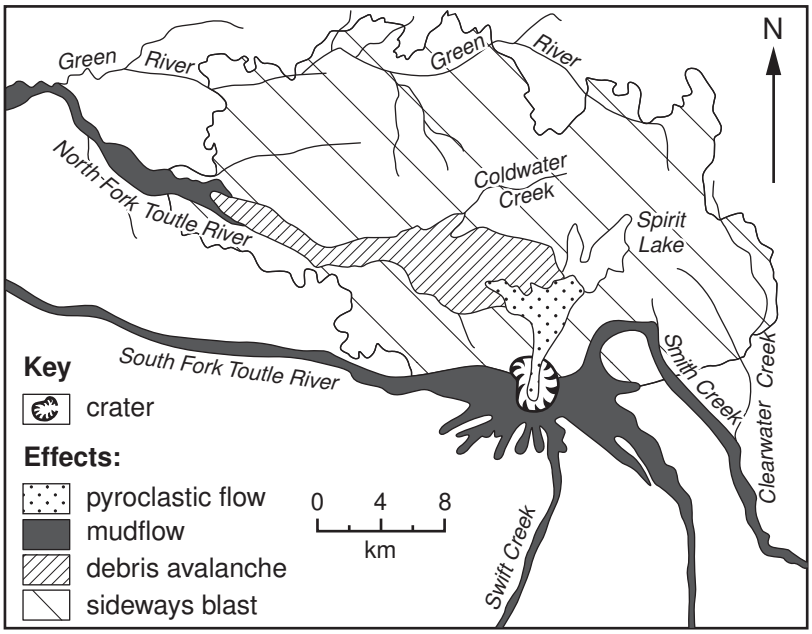



**Fig. 7**

**(i)** Which effect of the eruption:

covered over 600 km$^2$ north of the crater; .....

occurred in a single, 22 km long band west of Spirit Lake; .....

covered an area from the crater to 8 km further north?.....

[3]

**(ii)** Suggest a reason for the distribution of mudflows shown on Fig. 7.

.....

..... [1]

[Total: 8 marks]

**4** Figs 8 and 9 show features seen at a weather station.

For Examiner's Use

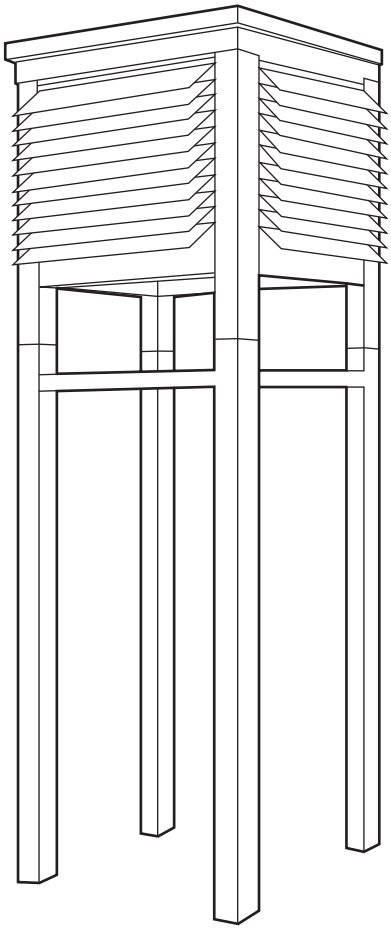


**Fig. 8**

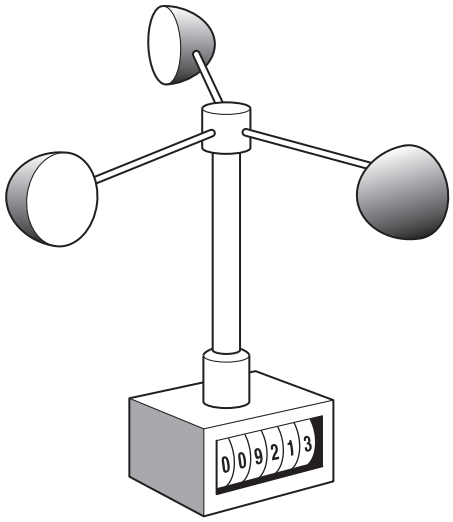



**Fig. 9**

**(a) (i)** Why is the box shown on Fig. 8 raised above the ground?

.....

..... [1]

**(ii)** Why are the sides of the box shown on Fig. 8 louvred (slatted)?

.....

..... [1]

**(b) (i)** What feature of the weather does the instrument shown on Fig. 9 measure?

..... [1]

**(ii)** What units are used to record this weather feature?

..... [1]

**(c)** Clouds are recorded without using any equipment. Fig. 10 shows three types of cloud.

*For Examiner's Use*

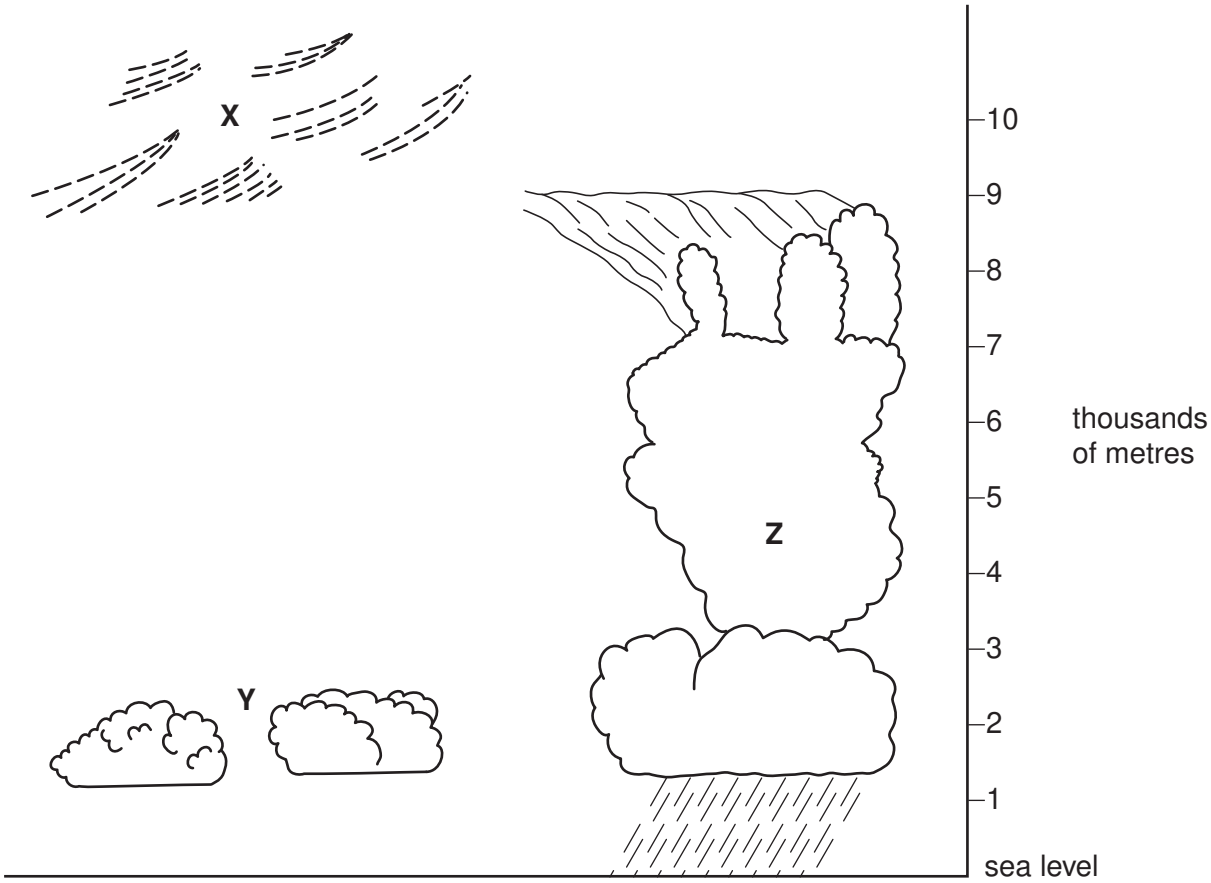



**Fig. 10**

**(i)** Name the **types** of cloud shown on Fig. 10.

**X** .....

**Y** .....

**Z** ..... [3]

**(ii)** State the units used to estimate the **amount** of cloud cover.

..... [1]

[Total: 8 marks]

**5** Photograph A (Insert), shows part of a river valley. Describe the **river**, **relief** and **vegetation** shown in the photograph.

*For Examiner's Use*

River .....

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.....

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Relief .....

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Vegetation .....

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[Total: 8 marks]

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**6** Four types of graph used in geography are:

- a radial graph (rose diagram)
- a pie graph (pie chart)
- a scatter graph
- a line graph

For each of the following four examples, **(a), (b), (c) and (d)**, choose the most appropriate type of graph from the list above. Name the type of graph and draw a **labelled** sketch of it.

You may use each type of graph **once** only.

*For Examiner's Use*

**(a)** A graph to show the percentages of tourists arriving in a country by air, road, rail and sea.

Name of type of graph .....

Labelled sketch

[2]

**(b)** A graph to show changes in the production of a crop over a number of years.

Name of type of graph .....

Labelled sketch

[2]

**(c)** A graph to show the relationship between crop yields and amount of fertiliser used in a group of countries.

*For Examiner's Use*

Name of type of graph .....

Labelled sketch

[2]

**(d)** A graph to show the variation in wind direction in one month at a weather station.

Name of type of graph .....

Labelled sketch

[2]

[Total: 8 marks]

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