



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
General Certificate of Education Ordinary Level

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**GEOGRAPHY**

**2217/22**

Paper 2

**May/June 2013**

INSERT

**2 hours 15 minutes**

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**READ THESE INSTRUCTIONS FIRST**

This Insert contains Photograph A for Question 5, Figs 7, 8, 9, 10 and 12 and Table 3 for Question 7 and Photographs B and C, Fig. 14 and Tables 6 and 7 for Question 8.

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

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This document consists of **9** printed pages and **3** blank pages.



Photograph A for Question 5



**Fig. 7 for Question 7****Daily rainfall in October 2000**

|                 |      | Rainfall (mm) |
|-----------------|------|---------------|
| Total September |      | 141.0         |
| October         |      |               |
|                 | 1st  | 8.9           |
|                 | 2nd  | 0.0           |
|                 | 3rd  | 0.0           |
|                 | 4th  | 0.8           |
|                 | 5th  | 0.0           |
|                 | 6th  | 0.0           |
|                 | 7th  | 13.0          |
|                 | 8th  | 0.0           |
|                 | 9th  | 41.6          |
|                 | 10th | 20.4          |
|                 | 11th | 106.4         |
|                 | 12th | 22.3          |
|                 | 13th | 0.0           |
|                 | 14th | 0.0           |
|                 | 15th | 3.1           |
|                 | 16th | 19.0          |
| Total October   |      | 369.0         |

**Fig. 8 for Question 7****Diary of the river flood**

|       |  |
|-------|--|
| Day 1 | It started to rain heavily about midday and rained until evening. The river level started to rise.   |
| Day 2 | The rain was less continuous but there were two very heavy showers. The river level went down but didn't return to its normal level.   |
| Day 3 | It started to rain heavily again in the afternoon and this continued all evening and through the night. The river level rose again and the rate of increase became more rapid.   |
| Day 4 | The rainfall continued through the night and the morning. It finally stopped raining about midday. The river overflowed onto the floodplain during the night and continued to flood the land even when the rain stopped. |

Fig. 9 for Question 7

Changes in the area

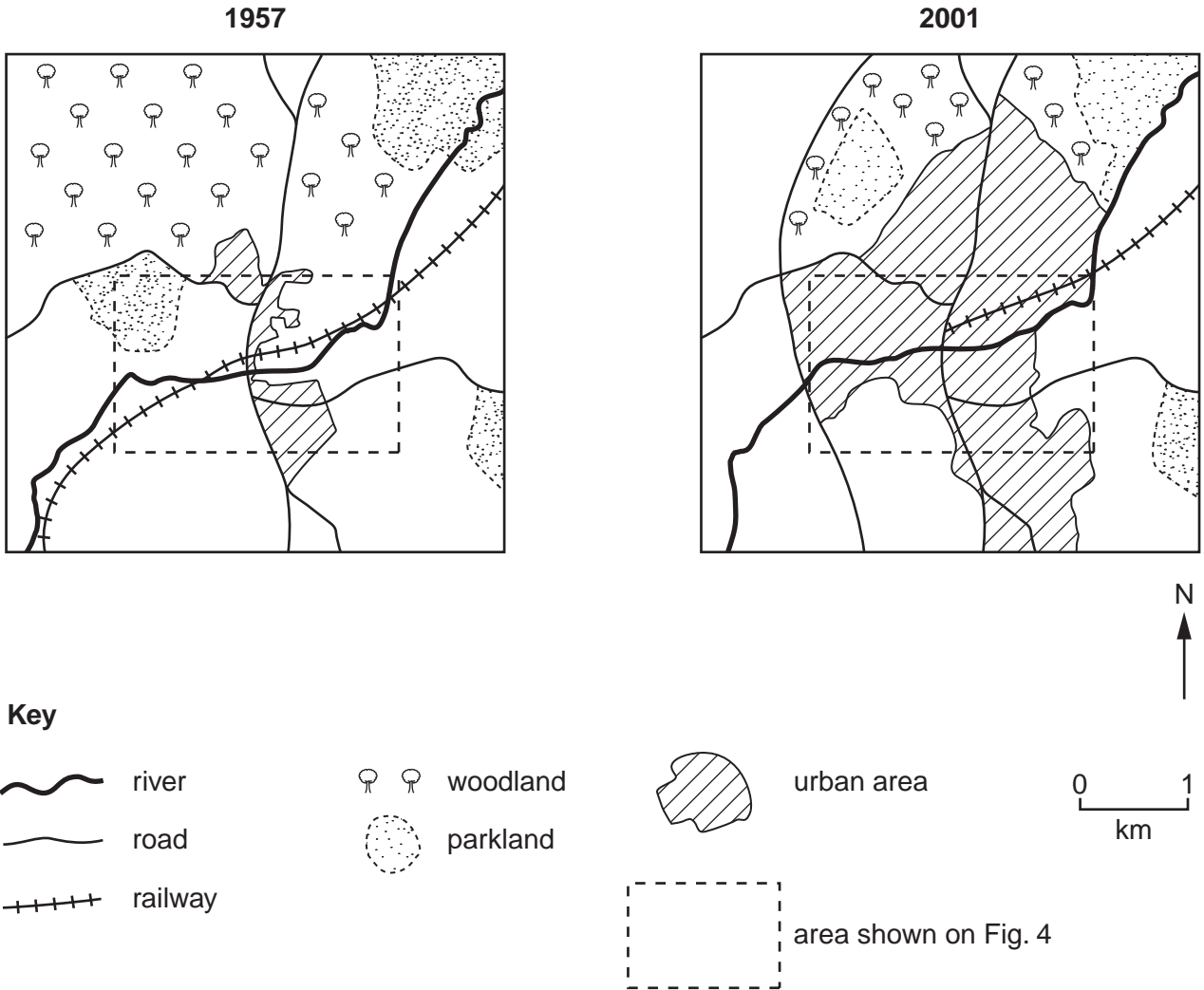




Fig. 10 for Question 7

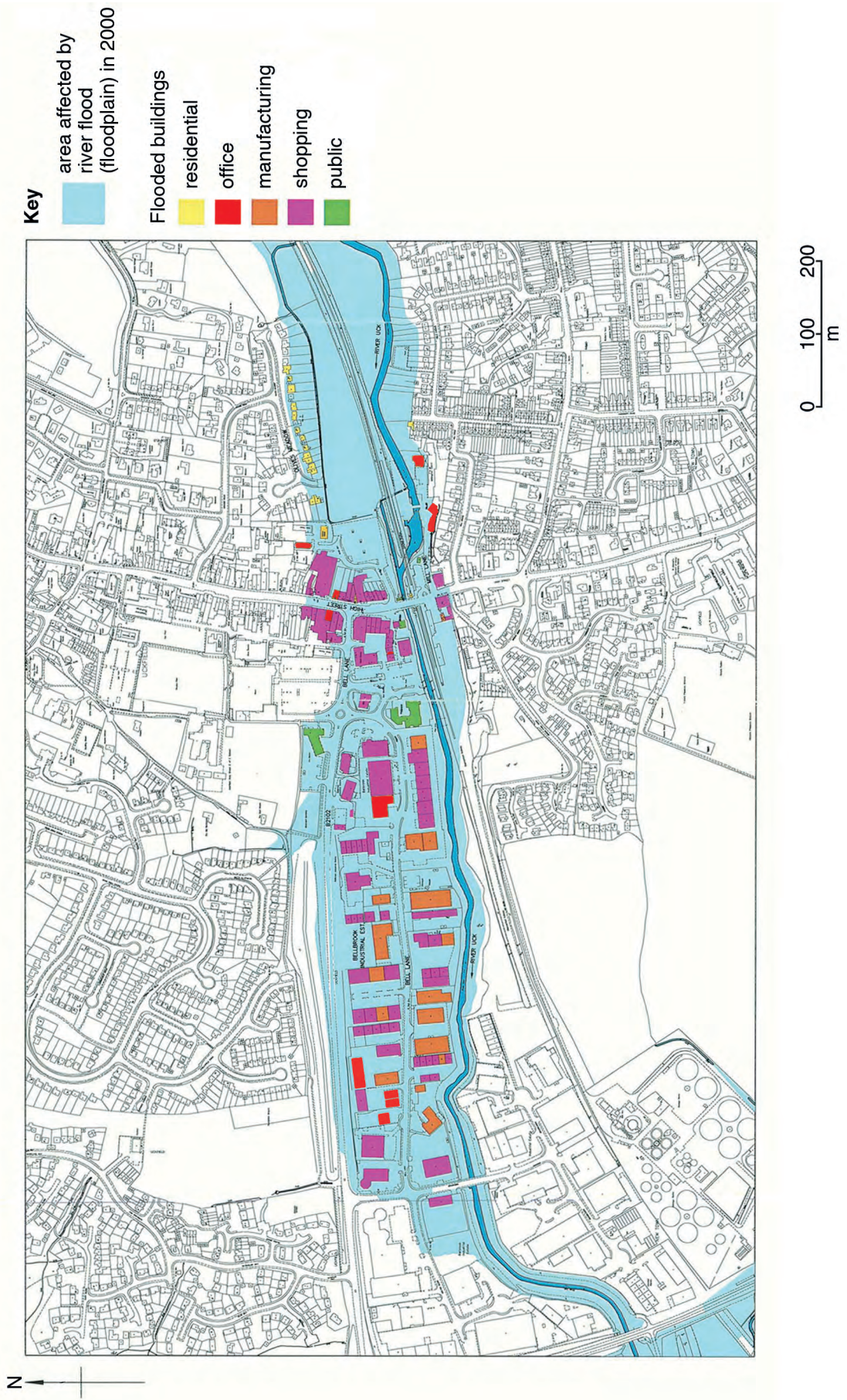


Table 3 for Question 7

## Uses of buildings on the floodplain in 2000 which were affected by flooding

| Building use  | Percentage of buildings | Number of buildings |
|---------------|-------------------------|---------------------|
| Shopping      | 55                      | 73                  |
| Residential   | 15                      | 20                  |
| Office        | 14                      | 19                  |
| Manufacturing | 12                      | 16                  |
| Public        | 4                       | 5                   |
| Total         | 100                     | 133                 |

Fig. 12 for Question 7

## Business questionnaire

We are investigating the effects of river flooding in October 2000 as part of our Geography coursework. Please will you answer the following questions?

1. Were you given any warning that the river might flood your business?

Yes

No

2. How was your business affected by river flooding in October 2000?

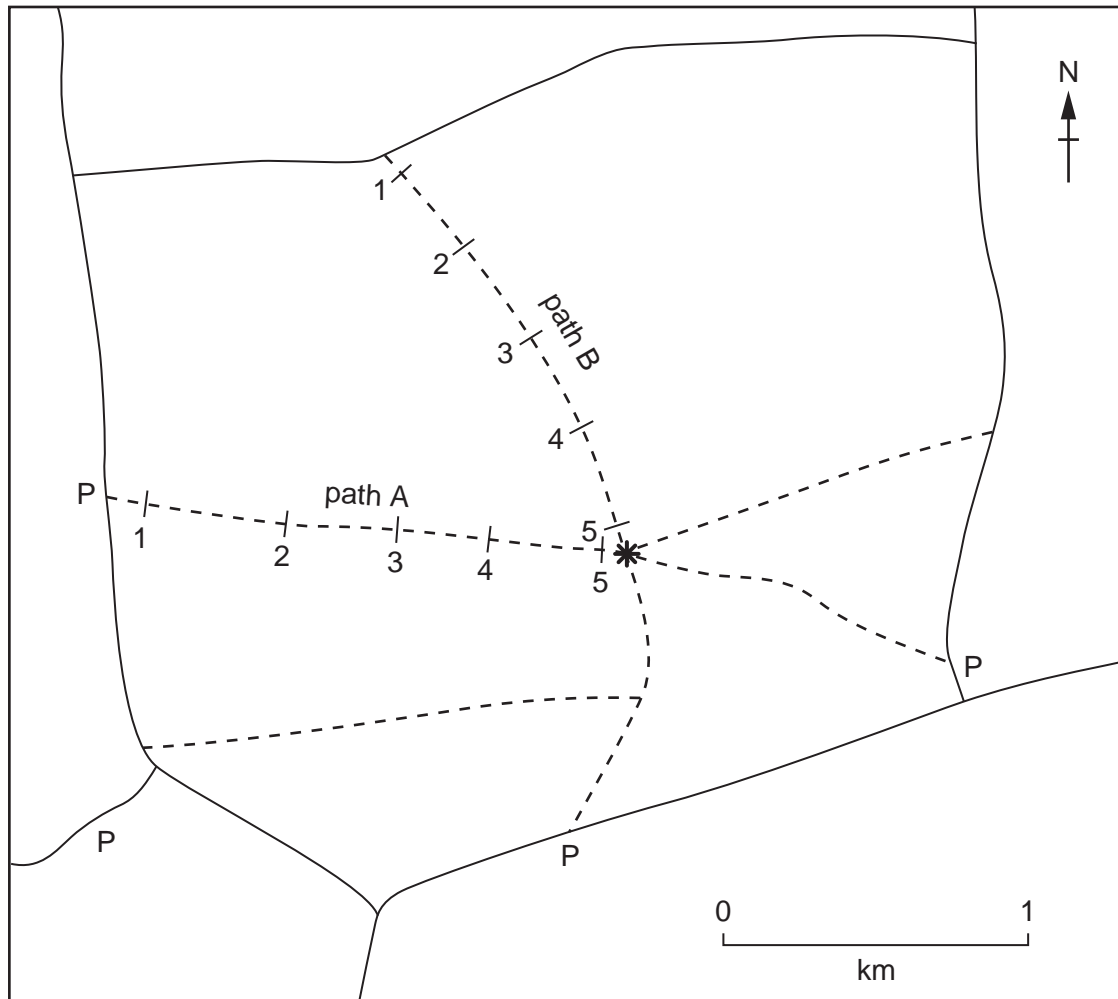
You may choose more than one response by ticking the box.

|   | Tick ✓ |
|---|--------|
| Loss of customers                                 |        |
| Temporary closure of the building and re-location |        |
| Expense of repairing the building                 |        |
| Destruction of stock and equipment                |        |
| Increased cost of insurance                       |        |

Thank you for your time.

Fig. 14 for Question 8

## Location of fieldwork sites

**Key**

- \* hilltop and tower
- - - path
- road
- P car park
- 1 sampling site



## Photograph B for Question 8

## The Tower



Table 6 for Question 8

## Results of pedestrian count

Day: Wednesday

Time: 10.00 – 10.10

Weather: Misty, cloudy, rain showers

Other information: Tower is closed

Day: Sunday

Time: 10.00 – 10.10

Weather: Sunny, warm, dry

Other information: Tower is open

| Path A: from the car park to the tower |                  |
|--|------------------|
| Site                                   | Number of people |
| Car park                               |                  |
| 1                                      | 6                |
| 2                                      | 6                |
| 3                                      | 9                |
| 4                                      | 7                |
| 5                                      | 12               |
| Tower                                  |                  |

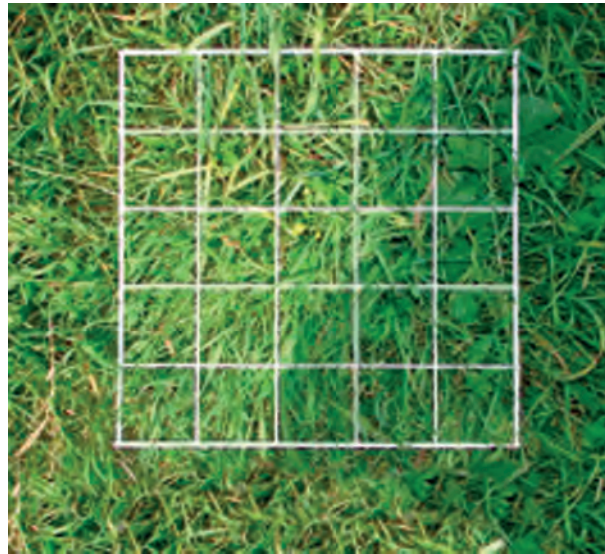
| Path A: from the car park to the tower |                  |
|--|------------------|
| Site                                   | Number of people |
| Car park                               |                  |
| 1                                      | 45               |
| 2                                      | 38               |
| 3                                      | 36               |
| 4                                      | 36               |
| 5                                      | 50               |
| Tower                                  |                  |

| Path B: from the road to the tower |                  |
|------------------------------------|------------------|
| Site                               | Number of people |
| Road                               |                  |
| 1                                  | 2                |
| 2                                  | 3                |
| 3                                  | 2                |
| 4                                  | 4                |
| 5                                  | 8                |
| Tower                              |                  |

| Path B: from the road to the tower |                  |
|------------------------------------|------------------|
| Site                               | Number of people |
| Road                               |                  |
| 1                                  | 16               |
| 2                                  | 14               |
| 3                                  | 13               |
| 4                                  | 12               |
| 5                                  | 27               |
| Tower                              |                  |



**Photograph C for Question 8**



**Table 7 for Question 8**

**Vegetation cover and bare soil**

**Path A: from the car park to the tower**

|                      |    |    |    |    |     |
|----------------------|----|----|----|----|-----|
| Site                 | 1  | 2  | 3  | 4  | 5   |
| Vegetation cover (%) | 14 | 22 | 10 | 23 | 0   |
| Bare soil (%)        | 86 | 78 | 90 | 77 | 100 |

**Path B: from the road to the tower**

|                      |    |    |    |    |    |
|----------------------|----|----|----|----|----|
| Site                 | 1  | 2  | 3  | 4  | 5  |
| Vegetation cover (%) | 70 | 62 | 55 | 44 | 10 |
| Bare soil (%)        | 30 | 38 | 45 | 56 | 90 |





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