



BENENDEN

SIXTH FORM 2018

GEOGRAPHY

1 hour 30 minutes

Full Name:

Current School:

Date:

Instructions to Candidates:

- Answer all the questions
- Write your answers in the space provided in this booklet
- Total marks for this paper = 100

Section A: Rivers, Floods and Management

30 marks

1 (a)

Figure 1a is a map showing the characteristics of the drainage basins of Clapham Beck and Austwick Beck and **Figures 1b** and **1c** are storm hydrographs of Clapham Beck and Austwick Beck, following the same storm.

Figure 1a

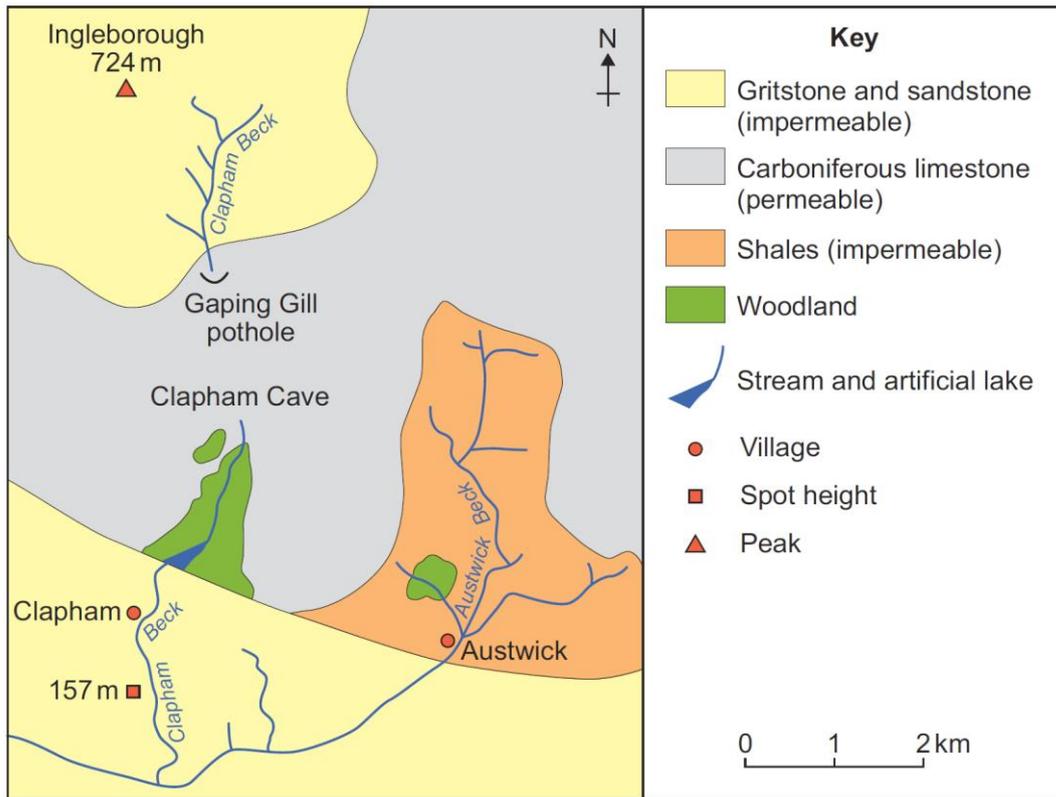


Figure 1b

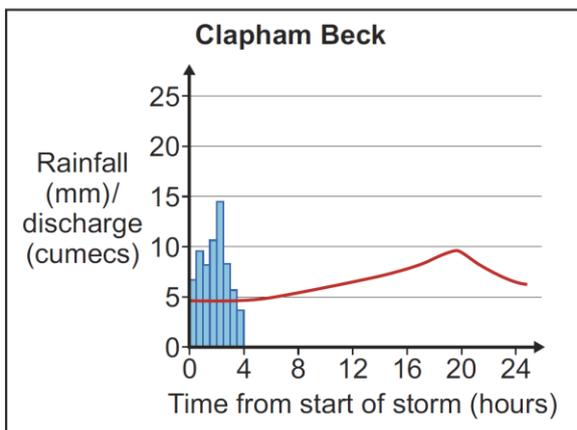
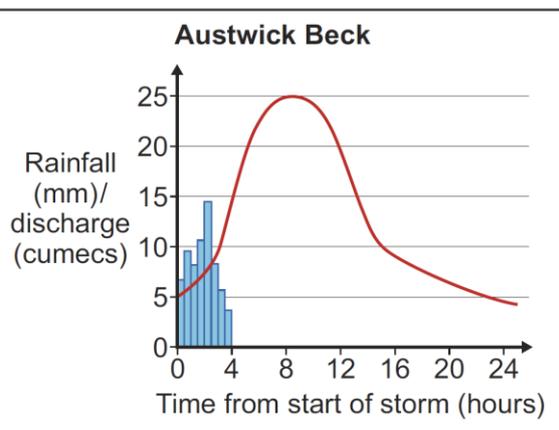


Figure 1c



1 (a) (i) Contrast the hydrographs shown in **Figures 1b** and **1c**.

[4 marks]

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1 (a) (ii) Use **Figure 1a** to explain the contrasts between the hydrographs shown in **Figures 1b** and **1c**.

[5 marks]

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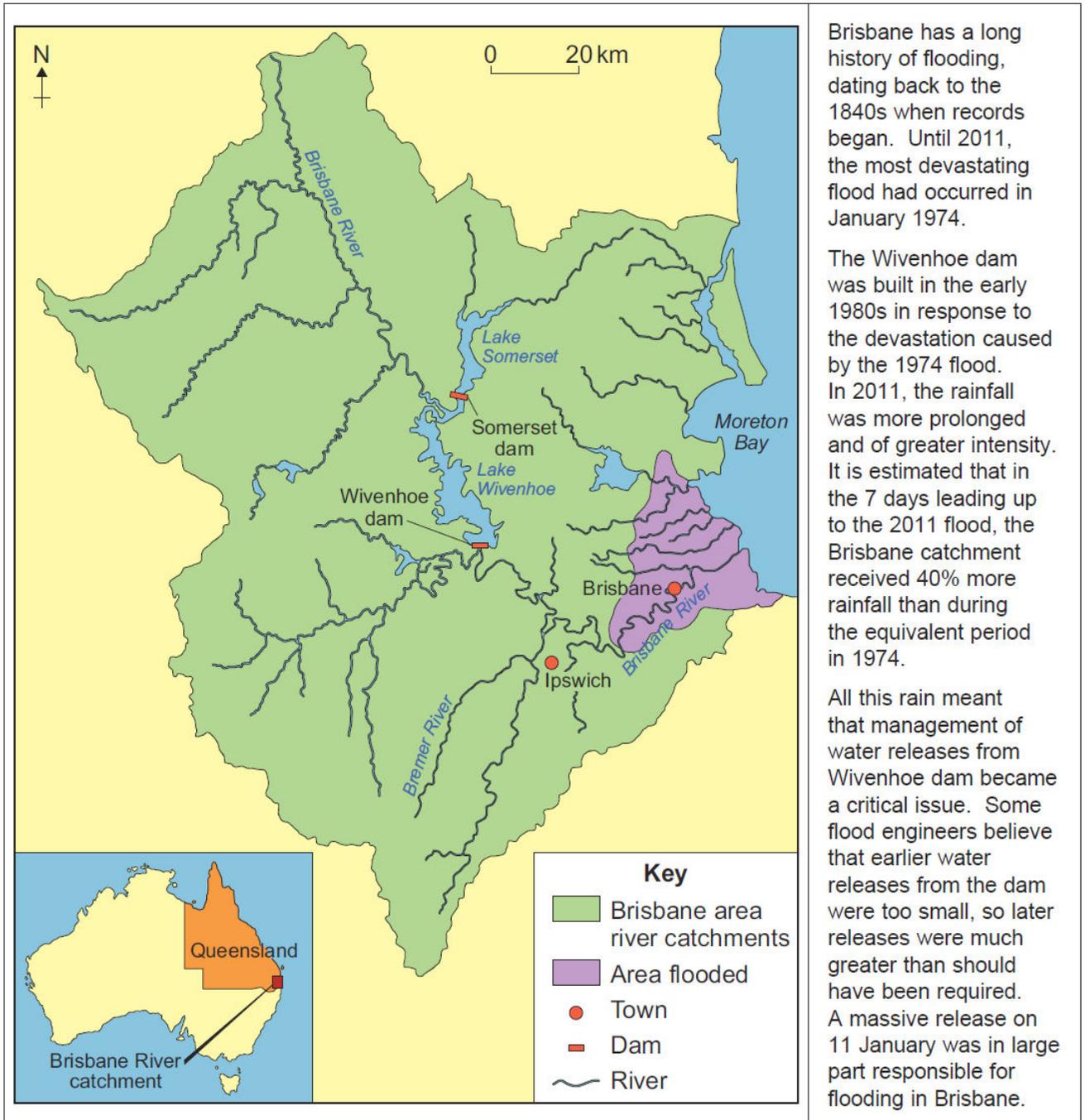
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2 **Figure 2** is an extract from a geographical magazine about flooding in Brisbane, Australia in January 2011.

Figure 2

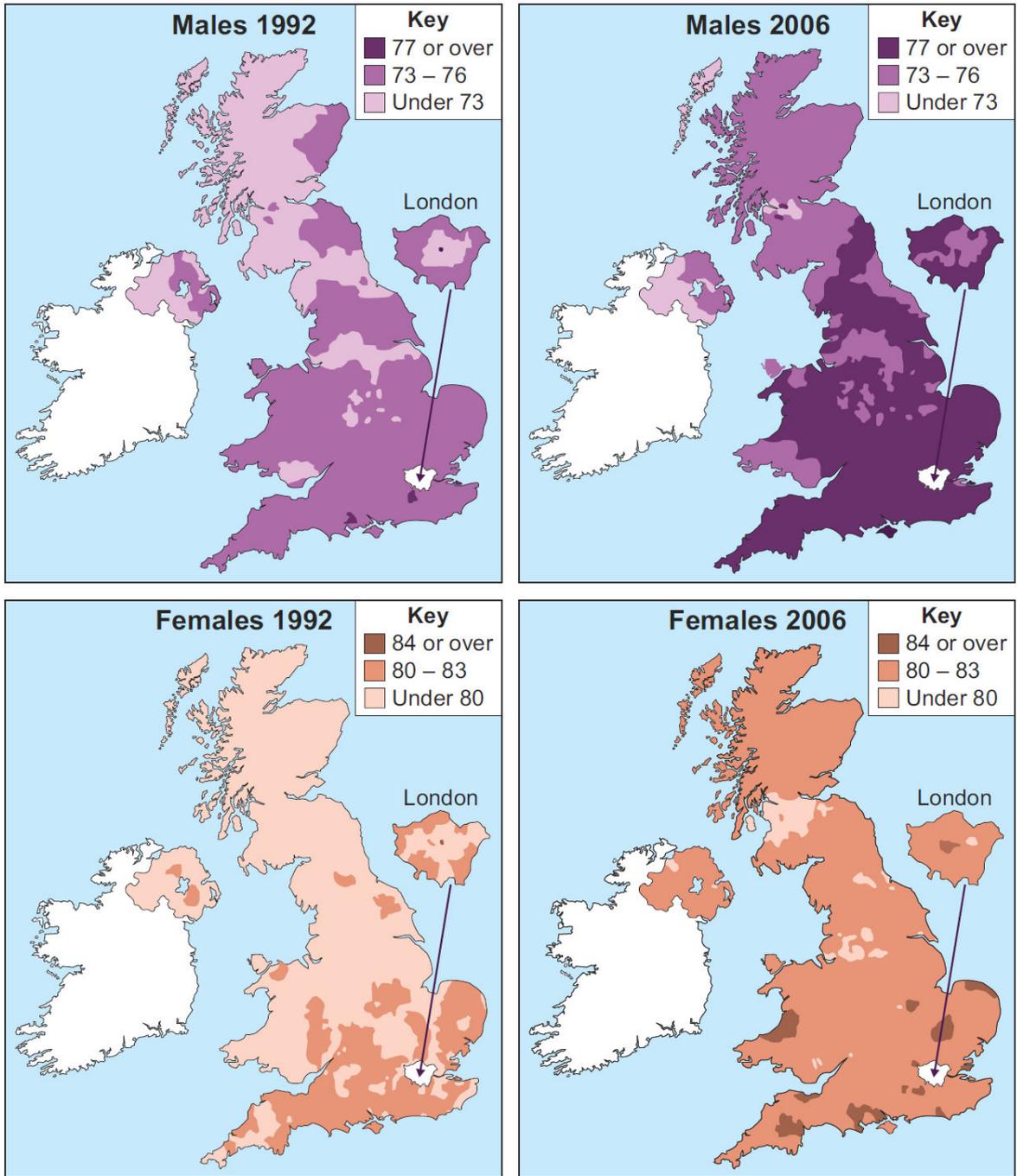


Brisbane has a long history of flooding, dating back to the 1840s when records began. Until 2011, the most devastating flood had occurred in January 1974.

The Wivenhoe dam was built in the early 1980s in response to the devastation caused by the 1974 flood. In 2011, the rainfall was more prolonged and of greater intensity. It is estimated that in the 7 days leading up to the 2011 flood, the Brisbane catchment received 40% more rainfall than during the equivalent period in 1974.

All this rain meant that management of water releases from Wivenhoe dam became a critical issue. Some flood engineers believe that earlier water releases from the dam were too small, so later releases were much greater than should have been required. A massive release on 11 January was in large part responsible for flooding in Brisbane.

Figure 3



4 (b) (ii) With reference to a case study, assess how successful **one** country has been in managing population change.

[6 marks]

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4 (c) “An ageing population can bring economic, political and social advantages as well as disadvantages.” Discuss this view.

[15 marks]

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5 (b) Outline the key characteristics of oceanic and tectonic plates. **[4 marks]**

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5 (c) With reference to examples, discuss the ways in which tectonic hazards can be managed. **[10 marks]**

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