



GCE AS/A level

1201/01



S16-1201-01

GEOGRAPHY – G1
Changing Physical Environments

P.M. TUESDAY, 17 May 2016

1 hour 30 minutes

ADDITIONAL MATERIALS

In addition to this examination paper, you will need **one** 12 page answer book.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.

Answer **all** questions.

Write your answers in the separate answer book provided.

Write your name, centre number and candidate number in the spaces at the top of the answer book.

INFORMATION FOR CANDIDATES

Each question carries **25** marks.

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

You are reminded that assessment will take into account the quality of written communication used in your answers.

THIS PAPER REQUIRES THAT YOU MAKE THE FULLEST POSSIBLE USE OF APPROPRIATE EXAMPLES IN SUPPORT OF YOUR ANSWERS. SKETCH-MAPS AND DIAGRAMS SHOULD BE INCLUDED WHERE RELEVANT.

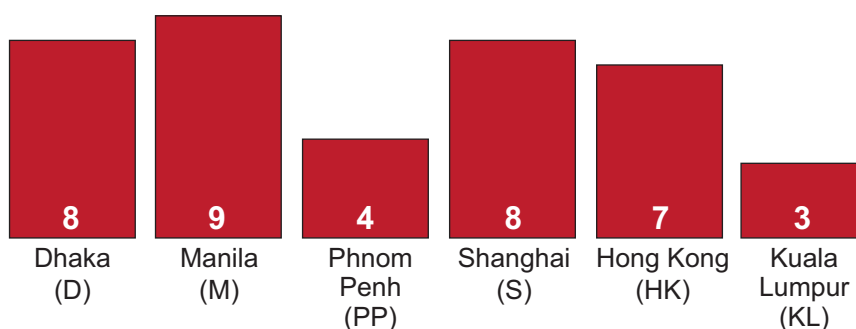
G1 – CHANGING PHYSICAL ENVIRONMENTS

Answer all questions.

Make the fullest possible use of examples in support of your answers.

Figure 1: Vulnerability of major coastal cities in Asia to climate change

A. Exposure to vulnerability



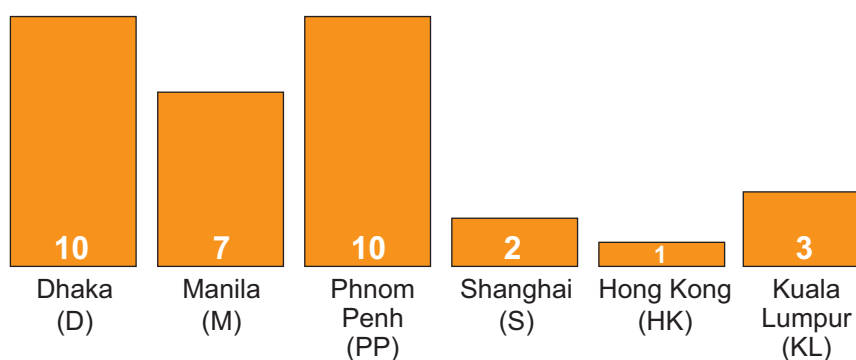
Exposure to vulnerability refers to the city's vulnerability to:

- (a) sea level rise
- (b) floods and drought
- (c) tropical storms

10 is greatest exposure, 1 is least exposure.

Source: adapted from: assets.panda.org

B. Ability to adapt to vulnerability



Ability to adapt to vulnerability refers to the willingness and financial ability of the city to implement adaptation strategies to climate change.
10 is least able, 1 is most able.

Source: adapted from: assets.panda.org

1. (a) Use **Figure 1** to describe differences in the vulnerability of major coastal cities in Asia to climate change. [5]
- (b) Compare the impacts of climate change in **two** regions that you have studied. [10]
- (c) Outline the relative importance of humans in causing recent climate change. [10]

Figure 2: A part of Sendai, Japan, before and after the tsunami of 2011



Before



After

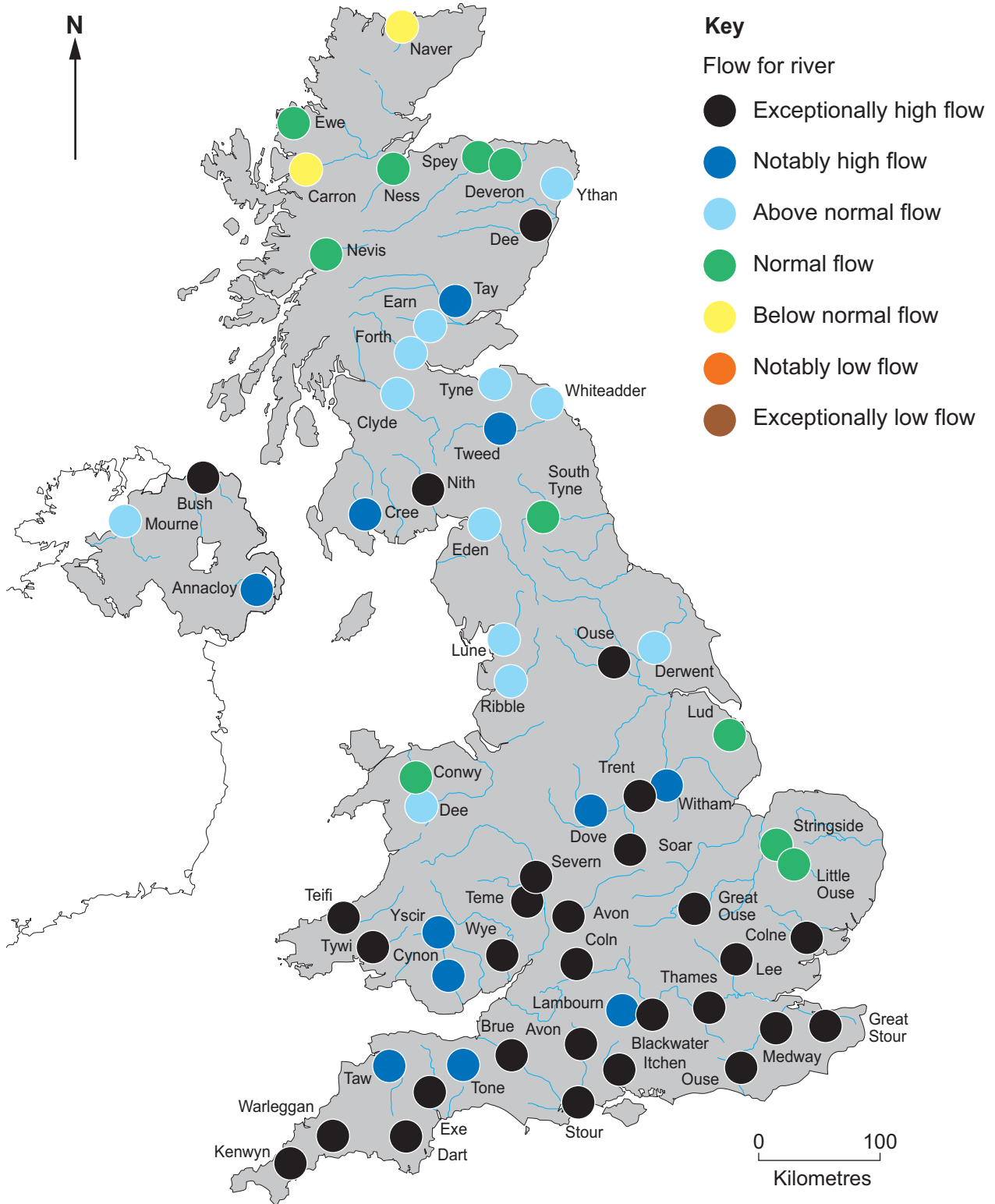
0 50
metres
(approximate)



Source: <http://i.telegraph.co.uk>

2. (a) Use **Figure 2** to describe the impacts of the tsunami. [5]
- (b) Outline why some groups have negative perceptions of hazards associated with **either** tectonic activity **or** flooding. [10]
- (c) Outline the strengths and weaknesses of **one** strategy used to manage tectonic hazards. [10]

Figure 3: Flow of selected rivers of the UK in January 2014



Source: adapted from <http://www.ceh.ac.uk>

3. (a) Use **Figure 3** to describe spatial patterns of river flow. [7]
- (b) Suggest information that would help to investigate why some rivers shown in **Figure 3** recorded exceptionally high flow. Justify your choices. [8]
- (c) Outline **two** weaknesses of your own investigation into a changing physical environment. [10]

You should state clearly the question that you have investigated.

END OF PAPER