



**GEOGRAPHY (PRINCIPAL)**

**9768/04**

Paper 4 Research Topic

**May/June 2018**

**1 hour 30 minutes**

Additional Materials: Answer Booklet/Paper



**READ THESE INSTRUCTIONS FIRST**

If you have been given an Answer Booklet, follow the instructions on the front cover of the Booklet.

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use an HB pencil for any diagrams or graphs.

Do not use paper clips, glue or correction fluid.

Choose Section A **or** Section B **or** Section C, according to your research topic.

Answer **three** questions, from the same section.

You are advised to spend thirty minutes on each Question.

For **Section A**, Retail Patterns, answer:

Question 1, Question 2 and **either** Question 3 **or** Question 4.

For **Section B**, Deprivation, answer:

Question 5, Question 6 and **either** Question 7 **or** Question 8.

For **Section C**, Fluvial Geomorphology, answer:

Question 9, Question 10 and **either** Question 11 **or** Question 12.

The Insert contains all the Figures referred to in the Question Paper.

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 syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 3 Pre-U Certificate.

This document consists of **4** printed pages and **1** Insert.

### Section A: Retail Patterns

Answer **three** questions:  
Question 1, Question 2  
and **either** Question 3 **or** Question 4

- 1 Study Fig. 1, which shows percentage change in amount spent and quantity bought in UK retailing for selected sectors from March 2015 to March 2016.
- (a) Giving evidence from Fig. 1, state which sector of retailing between March 2015 and March 2016 had:
- (i) the largest decrease in amount spent;
  - (ii) the largest increase in quantity bought. [2]
- (b) Describe the main trends in UK retailing shown in Fig. 1. [4]
- (c) Study Fig. 2, which shows internet sales by device at selected times of day for one major retailer in the UK in 2013.
- Using Fig. 2, describe the ways in which internet sales by device vary throughout the day. [6]
- (d) A major retailer is considering whether to expand its internet sales in the near future. Assess the benefits and limitations of Figs. 1 and 2 to the company in making its decision. [8]
- 2 (a) Study Fig. 3, which shows the distribution of selected coffee shops in central London in 2015.
- Describe the distribution of selected coffee shops in central London shown in Fig. 3. [5]
- (b) 'High streets in the United Kingdom are in a state of terminal decline.'
- From your wider study of retail patterns, how far do you agree with this statement? [10]

#### EITHER

- 3 With reference to your own investigation of retail patterns, assess the considerations you took into account when establishing a plan for conducting your investigation.
- Begin by stating the question or hypothesis that you investigated. [15]

#### OR

- 4 With reference to your own investigation of retail patterns, how far were you able to explain all your findings?
- Begin by stating the question or hypothesis that you investigated. [15]

**Section B: Deprivation**

Answer **three** questions:  
 Question 5, Question 6  
 and **either** Question 7 **or** Question 8

- 5 Study Fig. 4, which shows deprivation in the city of Brighton and Hove along transects from the Central Business District (CBD) in a north easterly direction and in a north westerly direction for 2013.
- (a) Giving evidence from Fig. 4, at what distance from the CBD was the greatest difference in deprivation between the two transects? [2]
- (b) Compare the pattern of deprivation with distance along the two transects shown in Fig. 4. [4]
- (c) Study Fig. 5A, which shows deprivation in the city of Brighton and Hove in 2013. Fig. 5B shows the wards in Brighton and Hove in 2013.
- ‘Deprivation is worse in the inner areas of British cities.’
- With reference to Figs. 5A and 5B, how far does deprivation in Brighton and Hove in 2013 support this statement? [6]
- (d) Evaluate the strengths and weaknesses of Figs. 4 and 5A to those responsible for addressing deprivation in urban areas. [8]
- 6 (a) Study Fig. 6, which shows deprivation for Hartlepool (County Durham) and Poole (Dorset) in 2010.
- ‘Hartlepool suffers more deprivation than Poole.’
- How far does Fig. 6 support this statement? [5]
- (b) From your wider study of deprivation, how far can the cycle of deprivation account for deprivation found in urban areas? [10]

**EITHER**

- 7 With reference to your own investigation of deprivation, assess the considerations you took into account when establishing a plan for conducting your investigation.
- Begin by stating the question or hypothesis that you investigated. [15]

**OR**

- 8 With reference to your own investigation of deprivation, how far were you able to explain all your findings?
- Begin by stating the question or hypothesis that you investigated. [15]

### Section C: Fluvial Geomorphology

Answer **three** questions:  
Question 9, Question 10  
and **either** Question 11 **or** Question 12

- 9** Study Fig. 7, which shows bedload particle diameter and distance from the source of a river.
- (a) Giving evidence from Fig. 7, at what distance from the source does the bedload have the largest range of diameters? [2]
- (b) Describe the relationship between particle diameter and distance from the river source shown in Fig. 7. [4]
- (c) Study Fig. 8, which shows bedload particle shape with distance from the source along a river's course.
- 'Bedload roundness increases with distance from the source of a river.'
- To what extent does Fig. 8 support this hypothesis? [6]
- (d) What are the limitations of Figs. 7 and 8 and what other information would be useful to those studying deposition along the course of a river? [8]
- 10** (a) Study Fig. 9, which shows the channel gradient and cross-sectional area along the course of a river.
- Describe the relationship between channel gradient and cross-sectional area shown in Fig. 9. [5]
- (b) From your wider study of fluvial geomorphology, to what extent have changes made by humans in one part of a river had effects elsewhere on the river's course? [10]

#### EITHER

- 11** With reference to your own investigation of fluvial geomorphology, assess the considerations you took into account when establishing a plan for conducting your investigation.
- Begin by stating the question or hypothesis that you investigated. [15]

#### OR

- 12** With reference to your own investigation of fluvial geomorphology, how far were you able to explain all your findings?
- Begin by stating the question or hypothesis that you investigated. [15]

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