



BIRKDALE SCHOOL

SIXTH FORM SCHOLARSHIP EXAMINATION

GEOGRAPHY

Time allowed: **1 hour 30 minutes**

Instructions:

Section A – The Natural Environment and People. Answer **TWO** questions from the choice of three (River environments, Coastal environments, Hazardous environments). Total marks for section A = 50.

Section B – People and their Environments. Answer **TWO** questions from the choice of three (Economic activity and energy, Ecosystems and rural environments, Urban environments). Total marks for section B = 50.

Total mark for paper = **100**

NAME _____

Section A mark (50) =

Section B mark (50) =

Total mark (100)

SECTION A – THE NATURAL ENVIRONMENT AND PEOPLE

Answer TWO questions only from this section.

Indicate which question you are answering by marking a cross ☒. If you change your mind, put a line through the box ☒ and then indicate your new question with a cross ☒.

If you answer Question 1 put a cross in the box ☒ .

1 River environments

(a) Study Figure 1 which shows the upper course of a river.



Figure 1

(i) Identify **three** features of the upper course of this river.

(3)

- 1
- 2
- 3

(ii) Which **one** of the following is the most important process in this river's upper course?

(1)

- A deposition
- B headward erosion
- C lateral erosion
- D vertical erosion



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(b) (i) What is a **hydrograph**?

(2)

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(ii) Outline **two** factors that might affect the shape of a hydrograph.

(4)

1

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2

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(c) Explain how different methods are used to control river flooding.

(6)

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If you answer Question 2 put a cross in the box .

2 Coastal environments

(a) Study Figure 2 which shows a stretch of tropical coastline.



Figure 2

(i) Identify the coastal ecosystem at X.

(1)

- A coral reef
- B mangrove
- C salt marsh
- D sand dune

(ii) Identify **two** other physical features of this coastline.

(2)

1

2

(iii) Suggest **one** way in which vegetation can affect this coastline.

(1)

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(c) Explain how different physical processes operate along a coastline.

(6)

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If you answer Question 3 put a cross in the box .

3 Hazardous environments

- (a) Study Figure 3 which shows an area of Kathmandu, Nepal, before and after a hazard event which affected much of the country.



Figure 3

- (i) Identify **one** short-term impact of this hazard event.

(1)

- (ii) Which **one** of the following is the most likely cause of this hazard event?

(1)

- A** earthquake
- B** coastal flooding
- C** heavy rainfall
- D** volcanic eruption

- (iii) Suggest how the scale of this event might have affected its long-term impact.

(2)

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(c) Explain how tropical storms are caused.

(6)

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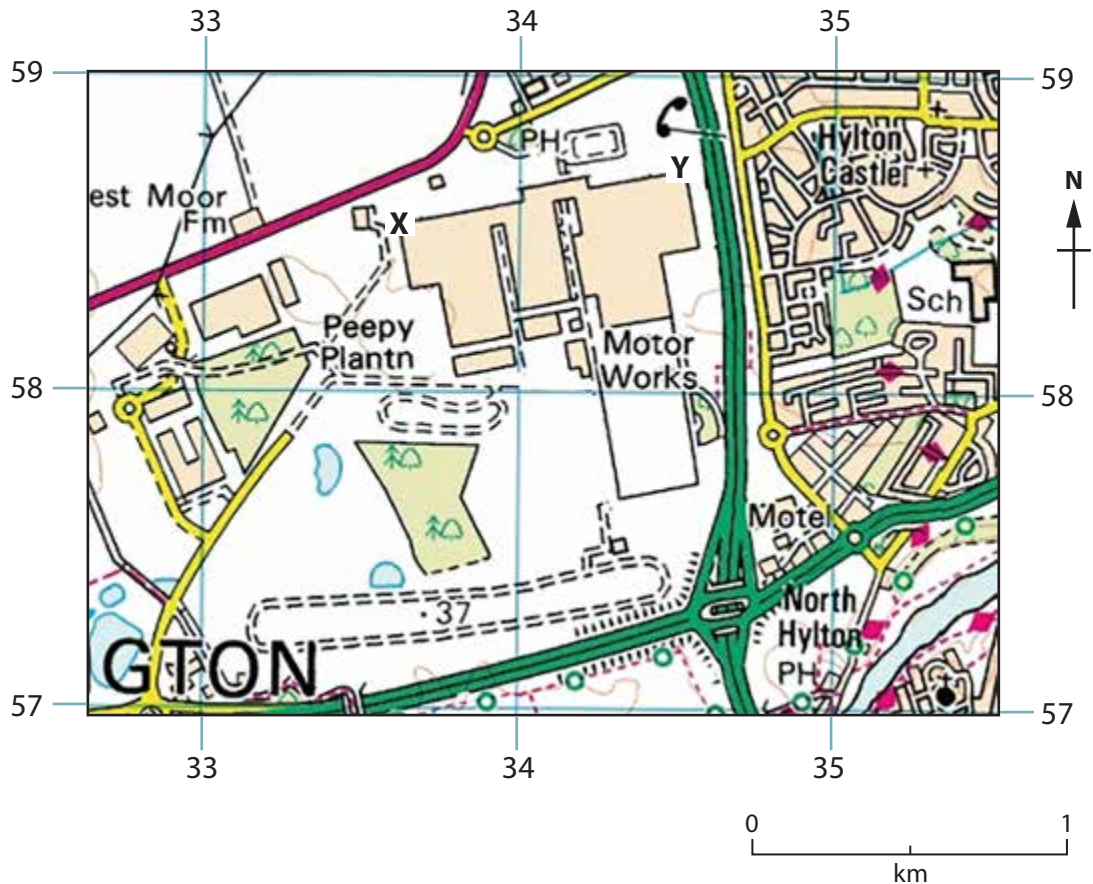
SECTION B – PEOPLE AND THEIR ENVIRONMENTS

Answer TWO questions only from this section.

If you answer Question 4 put a cross in the box .

4 Economic activity and energy

(a) Study Figure 4, an Ordnance Survey map extract which shows a Motor Works.



(Source: © Crown copyright and database rights 2016 Ordnance Survey)

Figure 4

(i) What is the straight line distance between the western (X) and eastern (Y) edges of the Motor Works?

(1)

- A** 0.7 km
- B** 0.9 km
- C** 1.1 km
- D** 1.3 km



(ii) Suggest **three** reasons why this location was chosen for the Motor Works.

(3)

1

2

3

(b) (i) What is meant by the term **energy efficiency**?

(2)

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(ii) Outline **two** reasons why energy efficiency is needed.

(4)

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(c) Explain how the economic sectors vary in importance between HICs and LICs.

(6)

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If you answer Question 5 put a cross in the box .

5 Ecosystems and rural environments

(a) Study Figure 5 which shows the location of Fair Isle and gives some information about the island.

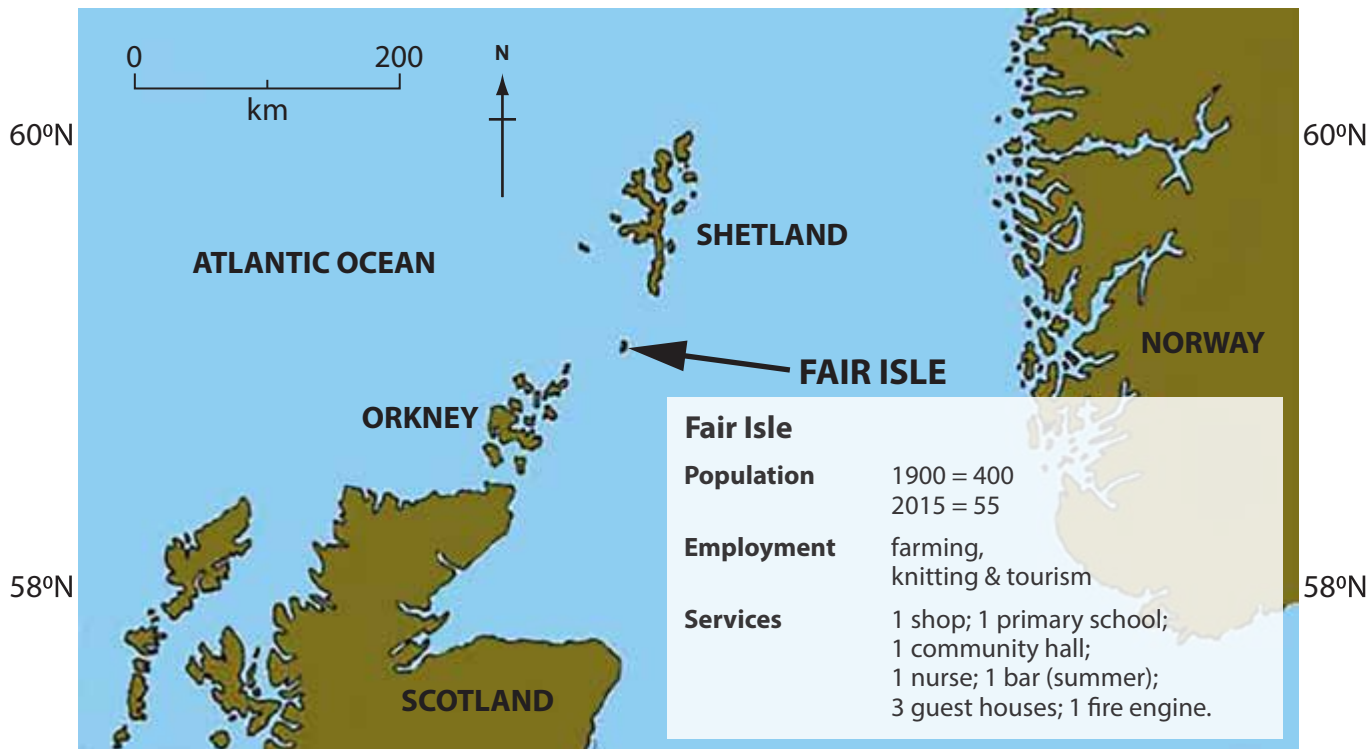


Figure 5

(i) What is the distance between Fair Isle and the southern tip of Shetland?

(1)

- A** 20 km
- B** 40 km
- C** 60 km
- D** 80 km

(ii) State the evidence for the depopulation of Fair Isle since 1900.

(1)

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(iii) Suggest **two** factors that might have encouraged the depopulation of this island.

(2)

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2

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(b) (i) What is meant by the term **conservation**?

(2)

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(ii) Outline **two** reasons for conservation in rural environments.

(4)

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P 4 8 1 6 2 R A 0 1 9 6 4

(c) Explain the causes of food shortages.

(6)

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If you answer Question 6 put a cross in the box .

6 Urban environments

- (a) Study Figure 6 which shows the location of nine urban regeneration projects in the centre of Sheffield, UK.

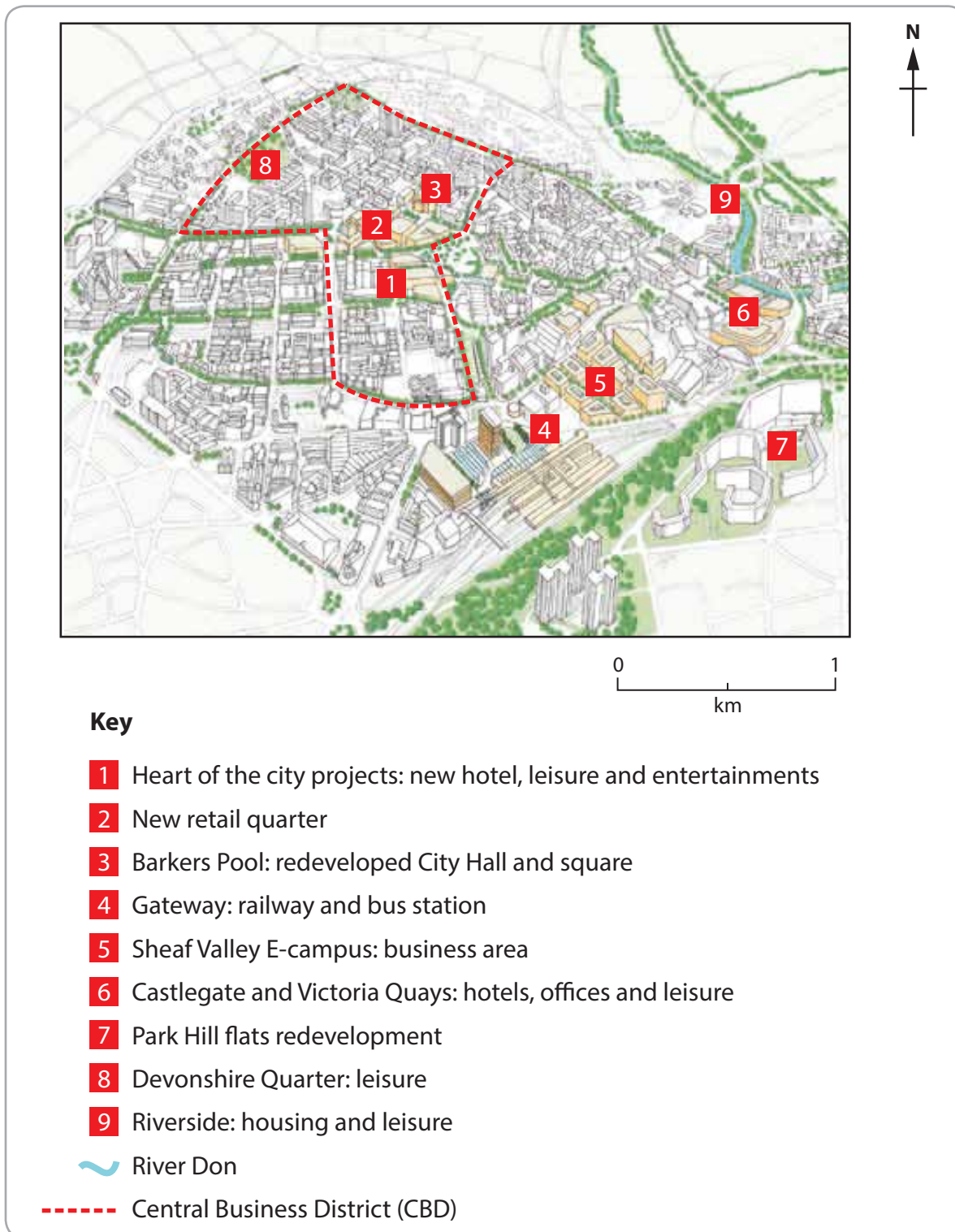


Figure 6

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- (i) What is the approximate distance between the sites of project 4 and project 8? (1)
- A 1.3 km
 - B 1.8 km
 - C 2.3 km
 - D 2.8 km

- (ii) Suggest **one** reason why project 4 was important to the regeneration of the city centre. (1)

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- (iii) Describe how the type of regeneration projects in the city's CBD are different from the other projects in the centre of Sheffield. (2)

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- (b) (i) What is meant by the term **shanty town**? (2)

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