GCE AS/A level

1201/01

GEOGRAPHY – G1
Changing Physical Environments

P.M. MONDAY, 12 May 2014

1 hour 30 minutes

1201
010001

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: Distribution of dzuds in Mongolia

A *dzud* is an extreme weather event where summer drought is followed by a severe winter.

Figure 1a: Frequency of dzuds 1961–1990

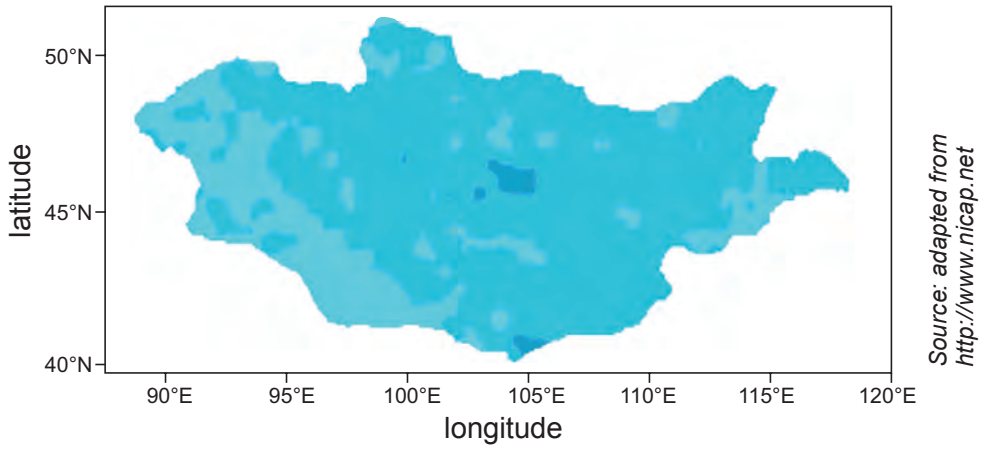


Figure 1b: Predicted frequency of dzuds 2071–2100

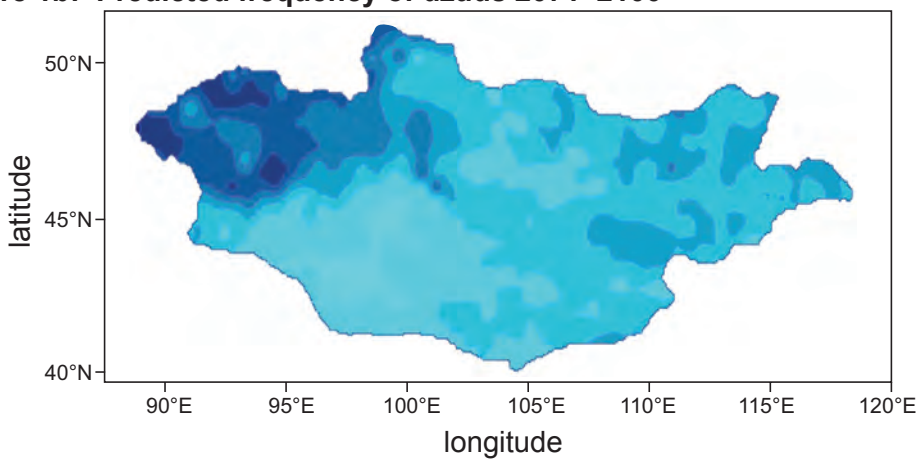
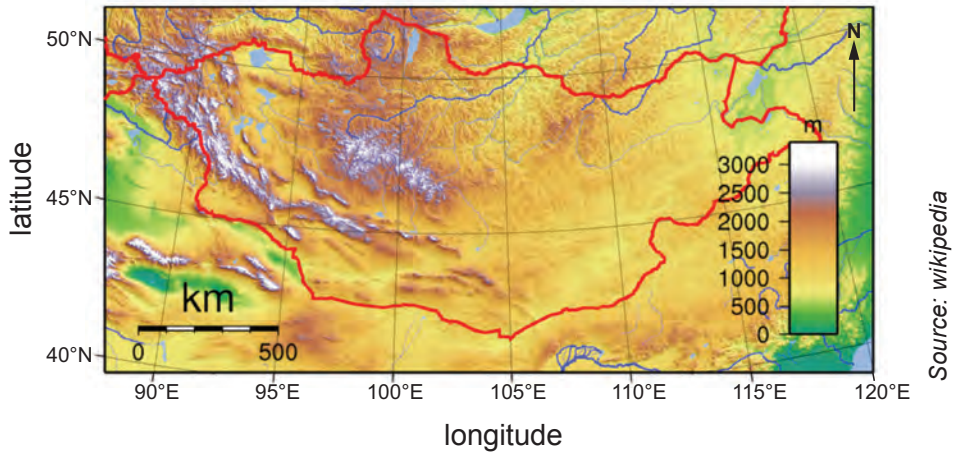


Figure 1c: Topography of Mongolia



1. *(a)* Use **Figure 1** to describe the changing distribution of dzuds predicted in Mongolia. [5]

(b) Outline the characteristics and causes of **one** short-term climate change. [10]

(c) Describe and explain **two** impacts of climate change on society. [10]

Turn over.

Figure 2: Deaths from earthquakes related to development level and mean magnitude, 1980-2009

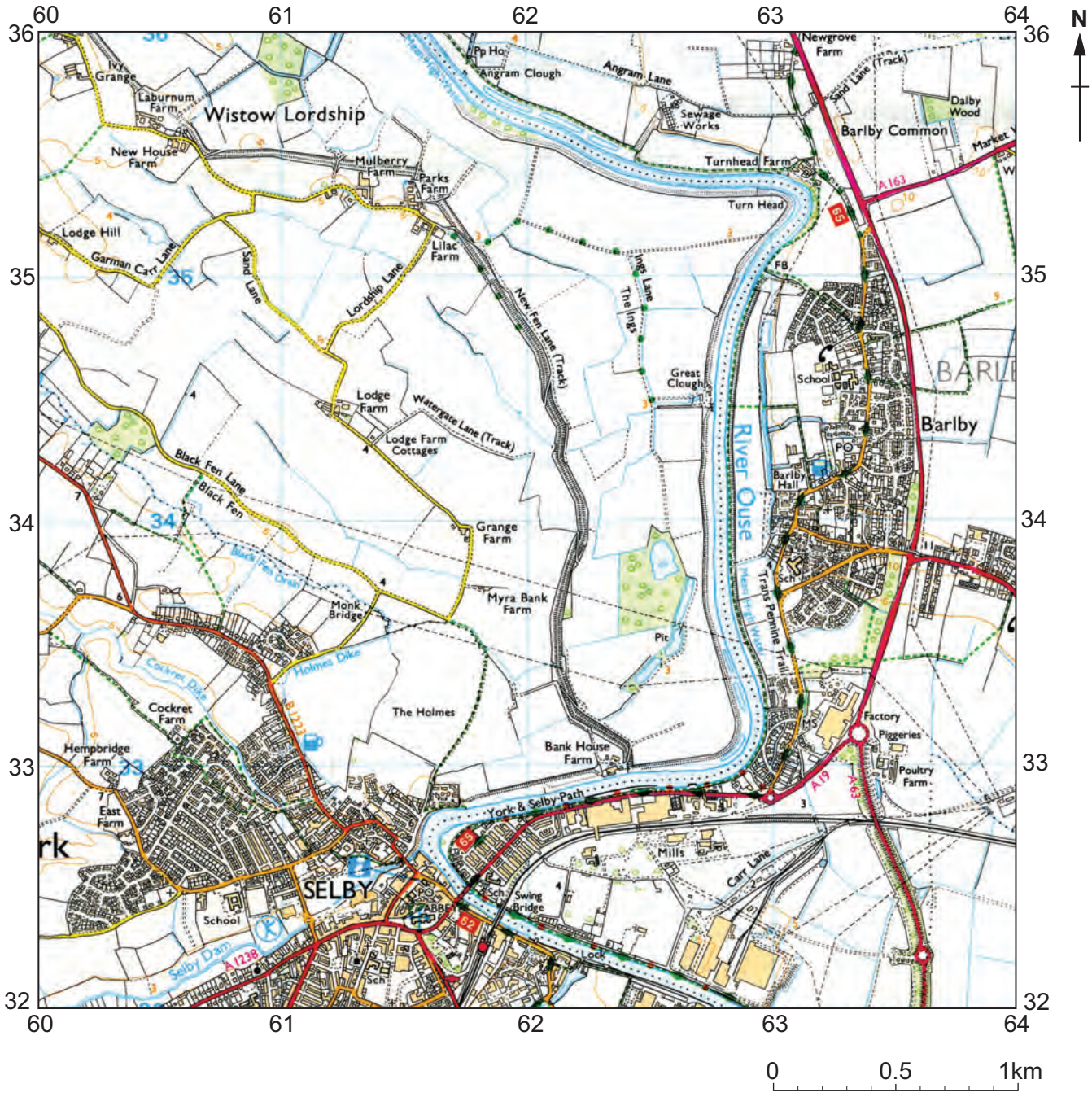
Development level	Earthquakes that resulted in no deaths	Earthquakes that resulted in 1–9 deaths	Earthquakes that resulted in 10–100 deaths	Earthquakes that resulted in over 100 deaths
% that occurred in Low Income Countries (LIC)	6.5%	10.1%	9.7%	14.8%
% that occurred in Middle Income Countries (MIC)	70.6%	73.6%	77.1%	76.2%
% that occurred in High Income Countries (HIC)	22.9%	16.3%	13.2%	9.0%
Mean magnitude (Richter Scale)	5.9	6.3	6.2	6.7

2. *(a)* Use **Figure 2** to describe variations in deaths from earthquakes. [5]

(b) Compare local and regional impacts of **one or more** tectonic events. [10]

(c) Outline **two** strategies used to manage **either** tectonic **or** flood hazards. [10]

Figure 3: 1:25 000 extract of part of the valley of the River Ouse, North Yorkshire



3. *(a)* Use evidence from **Figure 3** to describe **three** potential economic impacts of the River Ouse flooding. [7]

(b) Outline how Ordnance Survey maps can be used in an investigation into changing physical environments. [8]

(c) Evaluate the main conclusions of an investigation into a changing physical environment that you have completed. [10]

You should state clearly the question that you have investigated.

Ordnance Survey®

Explorer™ series (1:25 000 scale)
Selected Explorer Map symbols

ROADS AND PATHS

M1 or A6(M) — Motorway; Service Area; 7 Junction Number

A 35 — Dual carriageway

A 31(T) or A35 — Trunk or Main road

B 3074 — Secondary road

Narrow road with passing places

Road under construction

Road generally more than 4 m wide

Road generally less than 4 m wide

Other road, drive or track, fenced and unfenced

Path

National Trail / Long Distance Route; Recreational route

1 1 — National cycle network number

PUBLIC RIGHTS OF WAY

Footpath

Bridleway

Byway open to all traffic

Road used as a public path

Other routes with public access

TRANSPORT FEATURES

Multiple track / Single track } Standard gauge

Cutting; tunnel; embankment

Station, open to passengers; siding

Bus or coach station

SELECTED TOURIST FEATURES

Camp site

Caravan site

Camping and caravan site

Recreation / leisure / sports centre

Golf course or links

Theme / pleasure park

Preserved railway

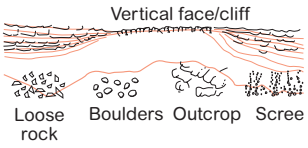
Public house/s

Other tourist feature

HEIGHT, GENERAL FEATURES AND VEGETATION

52 · Ground survey height

284 · Air survey height



75 60 50 Contours are at 5 metres vertical height

Coniferous trees

Non-coniferous trees

Coppice

Flood embankment

END OF PAPER