

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

For Examiner's Use	
Examiner's Initials	
Question	Mark
1(a)	
1(b)	
2	
3(a)	
3(b)	
4	
TOTAL	



General Certificate of Education
Advanced Level Examination
June 2014

Geography

GEO4B

Unit 4B Geographical Issue Evaluation

Monday 16 June 2014 1.30 pm to 3.00 pm

For this paper you must have:

- the Advance Information Booklet and the Ordnance Survey map extract (previously despatched).

You may use a calculator.

Time allowed

- 1 hour 30 minutes

Instructions

- Use black ink or black ball-point pen. Use pencil only for drawing.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work that you do not want to be marked.
- Figures and page numbers pre-fixed **P** are to be found in the Advance Information Booklet.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 60.
- You will be marked on your ability to:
 - use good English
 - organise information clearly
 - use specialist vocabulary where appropriate.

Advice

- Where appropriate, credit will be given for the use of diagrams to illustrate answers and where reference is made to your personal investigative work.
- You are advised to allocate your time carefully.



J U N 1 4 G E O 4 B 0 1

Answer **all** questions in the spaces provided.

- 1** **Figure 1** contains information taken from **Figure P3** in the Advance Information Booklet.

Figure 1

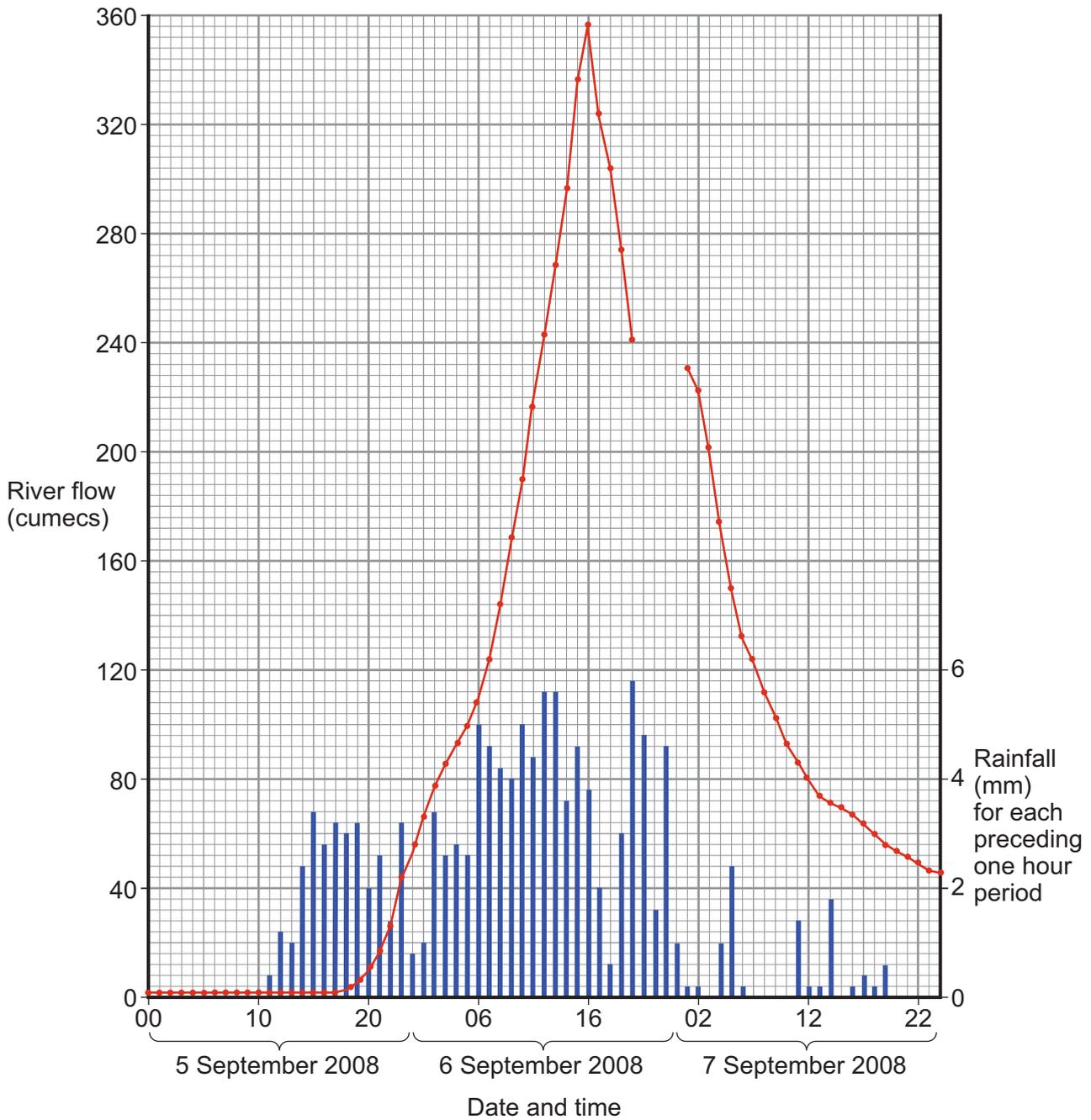
Date	Time	River flow (cumeecs)
06.09.08	21.00	215
06.09.08	22.00	206
06.09.08	23.00	213
07.09.08	00.00	224

- 1 (a)** Use data from **Figure 1** to complete the storm hydrograph in **Figure 2**.

[2 marks]



Figure 2



1 (b) Discuss the factors that might influence the shape of the completed hydrograph in Figure 2.

[8 marks]

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.....

Question 1 continues on the next page

Turn over ►



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**DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED**



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ANSWER IN THE SPACES PROVIDED**





Four colours should appear above; if not then please return to the invigilator.
Four colours should appear above; if not then please return to the invigilator.

ROADS AND PATHS Not necessarily rights of way

- M1 or A6(M) Motorway
- A 35 Dual carriageway
- A 30 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
- Gradient: steeper than 20% (1 in 5) 14% (1 in 7) to 20% (1 in 5)
- (V) Vehicle; (P) Passenger
- Path

RAILWAYS

- Multiple track } Standard gauge
- Single track } Standard gauge
- Narrow gauge or Light Rapid Transit System (LRTS) and station
- Road over; road under; level crossing
- Cutting; tunnel; embankment
- Station, open to passengers; siding

PUBLIC RIGHTS OF WAY Not shown on maps of Scotland

- Footpath
- Bridleway
- Byway open to all traffic
- Restricted byway

The representation on this map of any other road, track or path is no evidence of the existence of a right of way

OTHER PUBLIC ACCESS

- Other routes with public access
- National Trail
- Long Distance Route
- Recreational route
- Permitted footpath } See note below
- Permitted bridleway }
- Footpaths and bridleways along which landowners have permitted public use but which are not rights of way. The agreement may be withdrawn.
- Traffic-free cycle route
- National cycle network route number; Traffic free / on road

BOUNDARIES

- National
- County (England)
- Unitary Authority (UA), Metropolitan District (Met Dist), London Borough (LB) or District (Scotland & Wales are solely Unitary Authorities)
- Civil Parish (CP) (England) or Community (C) (Wales)
- National Park

HISTORICAL FEATURES

- Site of antiquity
- 1066 Site of battle (with date)
- VILLA Roman
- Castle Non-Roman
- Visible earthwork

HEIGHTS AND NATURAL FEATURES

- 52 Ground survey height
- 284 Air survey height

Surface heights are to the nearest metre above mean sea level. Where two heights are shown, the first height is to the base of the triangulation pillar and the second (in brackets) to the highest natural point of the hill



- Water; mud
- Sand; sand and shingle

GENERAL FEATURES

- Gravel pit
- Sand pit
- Other pit or quarry
- Landfill site or slag heap
- Slopes
- Place of worship
- Current or former place of worship - with tower - with spire, minaret or dome
- Building; important building
- Glasshouse
- Youth hostel
- Bunkhouse / camping barn / other hostel
- Bus or coach station
- Lighthouse; disused lighthouse;
- Beacon
- Triangulation pillar
- Mast
- Windmill; with or without sails
- Wind pump; wind turbine
- Electricity transmission line

ABBREVIATIONS

- BP Boundary post
- BS Boundary stone
- CH Clubhouse
- FB Footbridge
- MP; MS Milepost; milestone
- Mon Monument
- PO Post office
- Pol Sta Police station
- Sch School
- TH Town Hall
- NTL Normal tidal limit
- W; Spr Well; spring

ACCESS LAND (England & Wales)

- Access land boundary and tint
- Access land in wooded area
- Access information point
- MANAGED ACCESS Access permitted within managed controls, for example, local bylaws

Portrayal of access land on this map is intended as a guide to land which is normally available for access on foot, for example access land created under the Countryside and Rights of Way Act 2000, and land managed by the National Trust, Forestry Commission and Woodland Trust.

Access for other activities may also exist. Some restrictions will apply; some land will be excluded from open access rights.

The depiction of rights of access does not imply or express any warranty as to its accuracy or completeness. Observe local signs and follow the Countryside Code.

ACCESS LAND (Scotland)

- Land open to the public by permission of the owners. The agreement may be withdrawn.
- National Trust for Scotland Property; always open
- National Trust for Scotland Property; limited access - observe local signs
- Forestry Commission Land
- Woodland Trust Land

In Scotland, everyone has access rights in law over most land and inland water, provided access is exercised responsibly (Land Reform (Scotland) Act 2003). This includes walking, cycling, horse-riding and water access, for recreational and educational purposes, and for crossing land or water. Access rights do not apply to motorised activities, hunting, shooting or fishing, nor if your dog is not under proper control.

OTHER ACCESS

- DANGER AREA Firing and test ranges in the area. Danger! Observe warning notices

VEGETATION

- Vegetation limits are defined by positioning of symbols
- Coniferous trees
- Non-coniferous trees
- Coppice
- Orchard
- Scrub
- Bracken, heath or rough grassland
- Marsh, reeds or saltings

TOURIST AND LEISURE INFORMATION

- Building of historic interest
- Castle / fort
- Cadw (Welsh Heritage)
- English Heritage
- National Trust
- World Heritage site / area
- Heritage centre
- Museum
- Cathedral / Abbey
- Garden / arboretum
- Country park
- Nature reserve
- Public house/s
- Public convenience
- Recreation / leisure / sports centre
- Preserved railway
- Craft centre
- Other tourist feature
- Viewpoint
- Theme / pleasure park
- Information centre / seasonal
- Visitor centre
- Forestry Commission visitor centre
- Parking
- Park & Ride, all year / seasonal
- Cycle trail
- Mountain bike trail
- Cycle hire
- Picnic site
- Walks / trails
- Camp site
- Caravan site
- Camping and caravan site
- Fishing
- Golf course or links
- Horse riding
- Water activities
- Slipway
- Boat trips
- Boat hire
- Telephone; public / roadside assistance / emergency

