

Candidate 4

Physical Environments

Question 1

The candidate was awarded **8/8 marks**.

The first mark is awarded at 'melts in summer' (**1 mark**) and a second mark is awarded at 'more shaded' (**1 mark**); both marks are awarded for the formation of a glacier. The candidate goes on to make a third point on this and a mark could be awarded at 'eventually ice', however, this is bracketed off as the maximum for glacier formation has been achieved.

A mark is awarded at 'plucking' for knowledge of a named process (**1 mark**) and a further mark is awarded at 'steepening it' for development of this process (**1 mark**). A further mark is awarded at 'abrasion' for knowledge of a named process (**1 mark**) and another mark is awarded at 'deepening it' for further development of this process (**1 mark**).

A mark is awarded at 'frost-shattering' and at 'break off', however both of these are bracketed off as the maximum of four marks for processes has already been achieved. A mark is awarded at 'due to weight' as per MI (**1 mark**) and a further mark is awarded at 'glacier to slow down' (**1 mark**).

The candidate has now achieved full marks for this question however, a final mark could be awarded at 'tarn is left' as per MI (1 mark), if it were required.

Question 2

The candidate was awarded **8/8 marks**.

The first mark is awarded at 'off the coastline' as per MI (**1 mark**). A mark is awarded at 'onto the beach by swash' for knowledge of a named process (**1 mark**) and a further mark is awarded for development of this point at 'swash at an angle to the coastline' as this is linked to prevailing wind (**1 mark**). A mark is awarded at 'direction of the sea' for knowledge of the process of backwash (**1 mark**) however, a second mark has not been awarded as it has not been explained as being because of gravity. A mark is awarded at 'continues out to sea' (**1 mark**) and a further mark is awarded at 'thin line of sand' (**1 mark**). A mark is awarded at 'into a hook shape' as per MI (**1 mark**) and a final mark is awarded at 'form marshlands' linking to the river estuary (**1 mark**).

Question 3(a) and (b)

The candidate was awarded **8/8 marks**.

'A' and 'B' marks are used in this question as a maximum of five marks are available for either description or explanation.

This candidate has split their answer into sections (a) and (b), but has answered both parts of the question throughout. Marks are awarded wherever the candidate makes a correct and relevant point.

The first 'A' mark is awarded at 'polar regions' for a description of movement **(1 mark)**. A second 'A' mark is awarded at 'in order to be heated up' for movement to the equator **(1 mark)**. The first 'B' mark is awarded at 'energy is distributed' for the role of oceans in storing energy **(1 mark)** and a second 'B' mark is awarded at 'density differences' **(1 mark)**. A further 'B' mark is awarded at 'dense and sinks' for further explanation of density differences **(1 mark)** and another 'B' mark is awarded at 'less dense and rises' **(1 mark)**.

An 'A' mark is awarded at 'North Atlantic Drift' for a correctly named warm current **(1 mark)** and 'air' is underlined as the candidate means water. An 'A' mark is awarded at 'Canaries current' for a correctly named and identified cold current **(1 mark)**.

The candidate has now achieved full marks for this question however, the following commentary shows where further marks could have been awarded, had they been required.

A 'B' mark could be awarded at 'deflected to the right' (1 mark). An 'A' mark could be awarded at 'called gyres' for description of the movement of water (1 mark) and a final 'B' mark could be awarded at 'shape of the land mass' (1 mark).

Question 4(a) and (b)

The candidate was awarded **8/10 marks**.

'A' and 'B' marks are used in this question as a maximum of five marks are available for description. The maximum by default for explanation is nine marks.

The first 'A' mark is awarded at '6 cumecs' linked to 4 cumecs above for a correct description of discharge **(1 mark)**. A second 'A' mark is awarded at 'by 14:00' for the correct time for the slow rise mentioned **(1 mark)**. An 'A' mark is awarded at 'increased more quickly' for description of a further change **(1 mark)**.

A 'B' mark is awarded at 'as the rainfall increased' for a reason for this rise **(1 mark)**. An underline is placed at '18:00' as this should be 19:00. An 'A' mark is awarded at '26 cumecs to 34 cumecs' for a further change in discharge **(1 mark)**, and another 'A' mark is awarded at 'increased rapidly' for a further trend **(1 mark)**. An 'A' mark is awarded at '02:00', but is bracketed as the maximum marks for description have now been reached.

A 'B' mark is awarded at 'being absorbed' for the impact of the removal of vegetation on the rising limb **(1 mark)** and a third 'B' mark is awarded at 'storage of water' for the impact of concrete on the short lag time **(1 mark)**.

Question 5

The candidate was awarded **8/8 marks**.

The first mark is awarded at 'hard and soft rock' as per MI **(1 mark)**. A second mark is awarded at 'quicker and easier' for differential erosion **(1 mark)**. A mark is awarded at 'e.g. chalk' for two correctly named rock types **(1 mark)**. A wavy underline is placed at 'and undercut' as the hard rock, rather than the soft is undercut.

A mark is awarded at 'hydraulic action' for knowledge of the named process **(1 mark)**, but a second mark is not awarded for the candidate's development as this is not quite right. A mark is awarded at 'corrasion' for knowledge of a named process **(1 mark)** and a further mark is awarded at 'flings it against the rock eroding it' for development of this process **(1 mark)**.

A mark is awarded at 'left hanging' **(1 mark)** and a further mark is awarded at 'unsupported' as per MI **(1 mark)**.

The candidate has now achieved full marks for this question however, a final mark could be awarded at 'retreats upstream' (1 mark), if it were required.

Question 6

The candidate was awarded **5/8 marks**.

The first mark is awarded at 'coniferous needles' for explanation of humus formation **(1 mark)**. A second mark is awarded at 'unable to survive' for the impact of cold climate on biota **(1 mark)**.

A further mark is awarded at 'mix up the soil' for distinct horizons linked to biota **(1 mark)**. A mark is awarded at 'downward leaching' linked to precipitation **(1 mark)**, and a final mark is awarded at 'form an iron pan' explained by leaching **(1 mark)**.

Human Environments**Question 7**

The candidate was awarded **8/9 marks**.

The first mark is awarded at 'demand for schools' **(1 mark)** and a further mark is awarded at 'these sectors' for a link to job losses **(1 mark)**.

A mark is awarded at 'geriatric care' for services for the elderly **(1 mark)**. A mark is awarded at 'hinder the country's development' linking to the skills gap **(1 mark)** and another mark is awarded at 'immigrant labour' for the need for migration following on from this **(1 mark)**. A further mark is awarded at 'tensions may arise' for a further development of this **(1 mark)**.

A mark is awarded at 'increase in pensioners' **(1 mark)** and a final mark is awarded at 'pension qualifying age may need to be raised' **(1 mark)**.

Question 8

The candidate was awarded **6/6 marks**.

A mark is awarded at 'every 10 years' **(1 mark)** and a second mark is awarded at 'in their home etc.' for a development of this as per MI **(1 mark)**.

Another mark is awarded at 'births, deaths' for civil registrations **(1 mark)** and a further mark is awarded at 'between census collection' for development of this **(1 mark)**. A mark is awarded at 'social and economic data' **(1 mark)**. A further mark is awarded at 'continuous survey' **(1 mark)**.

The candidate has now achieved full marks for this question however, the following commentary shows where further marks could have been awarded, had they been required.

A mark could be awarded at 'random sample of the population' as per MI (1 mark). REP is placed at 'population survey' as this is another example of a sample survey. A final mark could be awarded at 'data to be updated' for NHS records (1 mark).

Question 9

The candidate was awarded **5/8 marks**.

A mark is awarded at 'more surface runoff' for the impact of the removal of vegetation **(1 mark)**. A further mark is awarded at 'destroys habitat' as per MI **(1 mark)**. A mark is awarded at 'transpired by plants' for the impact on rainfall **(1 mark)** and a further mark is awarded at 'risk of drought' for further development of this **(1 mark)**.

A mark is awarded at 'immune to things like the cold' as the remainder of the answer implies indigenous people have moved to reservations due to land degradation **(1 mark)**.

Question 10

The candidate was awarded **12/12 marks**.

An **(EG mark)** is awarded at 'Bowness' for a relevant named example. A mark is awarded at 'traffic congestion' **(1 mark)** and further marks are awarded at 'noise and air pollution' **(1 mark)** and 'erode the grass' for parking on verges **(1 mark)**; both further developments of the issues of traffic.

A mark is awarded at 'oil spillages' for the impact of speed boats **(1 mark)** and an **(EG mark)** is awarded at 'Lake Windermere' for a second relevant named example. A further mark is awarded at 'ruins the landscape' for the conflict of

quarrying **(1 mark)** and another two marks are awarded at 'dust being released **(1 mark)**, and at 'stunt the growth of trees' for further developments of this point **(1 mark)**.

An (EG mark) is awarded at 'Honister Quarry' however, this is bracketed off as the maximum of two marks for named examples has already been reached. Marks are awarded at 'increase footpath erosion' **(1 mark)**, 'climbing over them' **(1 mark)** and 'cattle escaping' **(1 mark)** all as outlined per MI for leaving gates open.

The candidate has now achieved full marks for this question however, a final mark could be awarded at 'causing them damage' for an issue caused by litter (1 mark), if it were required.

Question 11

The candidate was awarded **6/8 marks**.

An **(EG mark)** is awarded at 'Crown Street Regeneration Project' for a relevant named example of a strategy. A further mark is awarded at 'nicer and appealing' for an explanation of this **(1 mark)**. A mark is awarded at 'local shops, doctors' for community services as per MI **(1 mark)**. Another mark is awarded at 'attract young families' for an explanation of parks **(1 mark)** and a further mark is awarded at 'cars are in view' for a correct crime reduction strategy **(1 mark)**.

An (EG mark) is awarded at 'Clyde Gateway Project' and at 'Athlete's Village' however, these are bracketed off as the candidate has already achieved full marks for named examples.

A mark is awarded at '1400 houses were built' for an explanation of the gateway project **(1 mark)**. No further marks are awarded for the remainder of the answer as the points made on industry and transport are not linked to housing.

Question 12

The candidate was awarded **4/7 marks**.

An **(EG mark)** is awarded at 'Yellow line expressway' for a relevant named example and a further mark is awarded at 'Barra de Tijuca' for a description of this strategy **(1 mark)**.

Another (EG mark) is awarded at 'Complex de Almas' for a named example however, this is bracketed off as the candidate has already reached the maximum marks available for named examples. A mark is awarded at 'sky ride' for the impact of this strategy **(1 mark)** and a further mark is awarded at 'more and safer cycling' for the point on cycle routes **(1 mark)**.

No marks are awarded for the final statement as Bike Rio is not a tourist facility, and there is not enough development beyond this.