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AS GEOGRAPHY

7036/1

Paper 1 Physical Geography and People and the Environment

Tuesday 15 May 2018 Afternoon

Time allowed: 1 hour 30 minutes

For this paper you must have:

- the insert (enclosed)
- a pencil
- a rubber
- a ruler.

You may use a calculator.

At the top of the page, write your surname and other names, your centre number, your candidate number and add your signature.

[Turn over]



J U N 1 8 7 0 3 6 1 0 1

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INSTRUCTIONS

- Use black ink or black ball-point pen.
- Answer EITHER Question 1 OR Question 2 OR Question 3 in Section A.
- Answer EITHER Question 4 OR Question 5 in Section B.
- You must answer the questions in the spaces provided. Do NOT write on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

INFORMATION

- The marks for questions are shown in brackets.
- The total number of marks available for this paper is 80.

DO NOT TURN OVER UNTIL TOLD TO DO SO



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For the multiple-choice questions, completely fill in the circle alongside the appropriate answer.

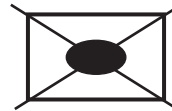
CORRECT METHOD



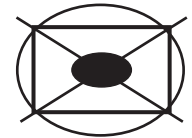
WRONG METHODS



If you want to change your answer you must cross out your original answer as shown.



If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown.



[Turn over]



SECTION A

Answer ONE question in this section.

Answer EITHER Question 1 OR Question 2 OR Question 3.

QUESTION 1 – Water and carbon cycles

0 1 . 1 Which of the following are ALL stores of water in a drainage basin? [1 mark]

- A** Channel flow, infiltration, runoff
- B** Evaporation, interception, soil water
- C** Ground water, soil water, surface water
- D** Precipitation, runoff, soil water



0 1 . 2

Which ONE of the following could be a natural cause of variation in the water cycle? [1 mark]

- A The rate of transfer of water from lithosphere stores to hydrosphere stores can be increased by urbanisation.
- B Hydrosphere stores of water can be reduced by abstraction of water for agriculture.
- C The amount of water stored in the biosphere could be reduced by deforestation.
- D Storm events transfer significant amounts of water from the atmosphere store to the hydrosphere and lithosphere stores.

[Turn over]



0 1 . 3

Outline an example of positive feedback in the water cycle. [3 marks]

FIGURE 1 and FIGURE 2, on pages 2 and 3 of the insert, show information about emissions of carbon dioxide into the atmosphere from fossil fuel use in 1960 and 2016.

0 1 . 4

Analyse the data shown in FIGURE 1 and FIGURE 2. [6 marks]



[Turn over]



0 1 . 5

Assess the impact of natural changes to the carbon cycle upon life on Earth.

[9 marks]



[Turn over]



0 1 . 6

'The size of major stores of water change over time more because of human activity than natural variation.'

To what extent do you agree with this statement? [20 marks]



[Turn over]



40

[End of Question 1]



QUESTION 2 – Coastal systems and landscapes

0 2 . 1 Which of the following are ALL processes of coastal transportation? [1 mark]

- A** Corrasion, hydraulic action, wave quarrying
- B** Abrasion, cavitation, attrition
- C** Mass movement, runoff, sub-aerial weathering
- D** Solution, suspension, traction

[Turn over]



0 2 . 2

Which of the following describes a Dalmatian coast? [1 mark]

- A An emergent coastline of former wave-cut platforms and their beaches at a higher level than the current sea level.
- B A series of ridges on a beach running parallel to the coast marking successively higher tides between neap and spring tides.
- C A sheltered area on the landward side of a spit where coastal sediments accumulate and become stabilised by vegetation like marram grass.
- D A submergent coastline where valleys have been flooded by a rise in sea level leaving a series of islands parallel to the coastline.



0 2 . 3

Outline the concept of eustatic sea level change. [3 marks]

[Turn over]



FIGURE 3 and FIGURE 4, on pages 4 and 5 of the insert, provide information about the changes in coastal landforms in the Kuala Baram region of Sarawak, East Malaysia.

0 2 . 4 Analyse the data shown in FIGURE 3 and FIGURE 4. [6 marks]



0 2 . 5

**Assess the role of weathering in the development of coastal landforms.
[9 marks]**

[Turn over]





0 2 . 6

‘Sustainable approaches to coastal management will become more important than traditional approaches in dealing with the impacts of climate change.’

**To what extent do you agree with this view?
[20 marks]**

[Turn over]



[Turn over]



[End of Question 2]



QUESTION 3 – Glacial systems and landscapes

03 . **1** What is the geomorphological process of plucking? [1 mark]

- A** A process leading to the loss of mass from the glacier mainly due to melting.
- B** One of a range of processes by which ice within a glacier is transported downhill from the zone of accumulation to the zone of ablation.
- C** Erosion caused by a glacier freezing to the valley floor and sides, removing pieces of bedrock as the glacier moves.
- D** Where material carried by a glacier wears away at the valley floor and sides.

[Turn over]



03 . 2

Which of the following describes a till plain? [1 mark]

- A A continental size mass of ice that is dome-shaped with flows of ice radiating from the centre.
- B A steep-sided ridge of unsorted material stretching across a glacial valley at right angles to the direction of ice advance.
- C A swarm of streamlined elongated 'whale back' hills often found on glaciated lowland plains.
- D A thick covering of unsorted glacial deposits found behind a terminal moraine.

03 . 3

Outline the concept of the glacial budget. [3 marks]



FIGURE 5 and FIGURE 6, on pages 6 and 7 of the insert, provide information about changes to the amount of ice in Antarctica and Greenland.

03 . 4

Analyse the data shown in FIGURE 5 and FIGURE 6. [6 marks]

[Turn over]



0 3 . **5**

Assess the extent to which erosion has been the dominant process in a local scale glaciated environment that you have studied. [9 marks]



[Turn over]



0 3 . 6

**Assess the potential impact of climate change on periglacial landscapes.
[20 marks]**



[Turn over]





[Turn over]



40

[End of Section A]



SECTION B

Answer ONE question in this section.

Answer EITHER Question 4 OR Question 5.

[Turn over]



QUESTION 4 – Hazards

0 4 . **1** Which of the following best describes an island arc? [1 mark]

- A** An archipelago formed of a series of volcanoes rising above sea level associated with an ocean trench and destructive plate margin.
- B** An underwater mountain range associated with sea-floor spreading at a constructive plate boundary.
- C** A linear lowland area between highlands formed as tectonic processes begin to pull tectonic plates apart.
- D** Linear mountain ranges formed as two or more tectonic plates are pushed together often causing layers of sedimentary rocks to buckle and warp.



04 . 2

Which of the following are ALL hazards resulting from seismic events? [1 mark]

- A Lava flows, nuées ardentes, shockwaves
- B Liquefaction, landslides, tsunamis
- C Earthquakes, pyroclastic flows, tephra
- D Ash flows, liquefaction, mudflows

[Turn over]



0 4 . 3 Outline the process of slab pull in relation to plate movement. [3 marks]

FIGURE 7, on page 8 of the insert, shows tropical storm basins where storms occur on a regular basis.

FIGURE 8, on page 9 of the insert, shows data about the frequency of storm events in each tropical storm basin between 1981 and 2010.

0 4 . 4 Analyse the data shown in FIGURE 7 and FIGURE 8. [6 marks]



[Turn over]



04 . 5

Assess the impacts of a recent wildfire event upon people’s lived experience of the place. [9 marks]



[Turn over]



0 4 . 6

'The severity of the impacts of the volcanic hazards experienced in a place is affected more by the nature of plate boundaries than the level of development of the place.'

**To what extent do you agree with this view?
[20 marks]**



[Turn over]





[Turn over]



4 7

QUESTION 5 – Contemporary urban environments

0 5 . **1** Which of the following best describes a world city? [1 mark]

- A** A city that has experienced economic and structural regeneration following a period of decline.
- B** A city that has very significant economic or financial and/or political influence on an international scale.
- C** A large metropolitan urban area with a population of at least 10 million.
- D** A self-contained settlement that has developed beyond the original city boundary and become a city in its own right.



0 5 . 2

Which of the following is a form of air pollution where exhaust fumes interact with sunlight to produce low-level ozone?
[1 mark]

- A Methane released from landfill
- B Particulate pollution
- C Photo-chemical pollution
- D Urban heat island effect

0 5 . 3

Outline the process of suburbanisation.
[3 marks]

[Turn over]



FIGURE 9, on pages 10 and 11 of the insert, shows the Index of Multiple Deprivation for the city of Preston, Lancashire in 2015.

FIGURE 10, on pages 12 and 13 of the insert, shows the percentage of Preston residents who cannot speak English (2011 census).

05 . 4

Analyse the data shown in **FIGURE 9** and **FIGURE 10**. [6 marks]

0 5 . 5

Assess the impact on the character of a place of a river restoration and conservation project in a damaged urban catchment. [9 marks]

[Turn over]





0 5 . **6**

‘Environmental issues in urban areas will always emerge despite attempts to be more sustainable.’

**With reference to TWO contrasting urban areas that you have studied, to what extent do you agree with this statement?
[20 marks]**

[Turn over]





[Turn over]



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Section	Mark
A	
B	
TOTAL	

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