

Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

INTERNATIONAL AS GEOGRAPHY

UNIT 1A PHYSICAL GEOGRAPHY 1, HOT DESERT SYSTEMS AND LANDSCAPES

Date of Exam

Session

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a ruler with millimetre measurements
- a calculator, which you are expected to use where appropriate.

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of the 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.
- All working must be shown.
- 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 maximum mark for this paper is 80.
- You may use a bilingual dictionary for this exam.
- You may **not** use an English dictionary.

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
TOTAL	

Section A – Living with Hazards

Answer **all** questions in the spaces provided

Only **one** answer per question is allowed.

For each answer 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.

0 1 . **1** Which of the following accurately describes the term 'hazard perception'? **[1 mark]**

- A** A geographer's view of how dangerous a hazard was and whether it caused a disaster
- B** A theoretical concept about how people view and understand the danger of a hazard
- C** How a government spends money in preparing for a hazard event
- D** How a hazard develops and changes over time

0 1 . **2** What impact do high air temperatures have on forest fires? **[1 mark]**

- A** They cause droughts, which ensures that ground fuels such as twigs burn easily
- B** They cause forest materials such as the roots of trees to dehydrate and burn underground
- C** They increase the amount of aerial fuels which increases the speed of the burning
- D** They preheat the fuels in the fire's path so it burns more readily

0 1 · **3** Which of these statements can be applied to all tropical storms?

[1 mark]

- A** They are given a name when they have the potential to cause disasters
- B** They begin in a warm and deep ocean and move westwards
- C** They cause coastal and river flooding
- D** They rotate in a clockwise direction

0 1 · **4** What is a pyroclastic flow?

[1 mark]

- A** A high speed flow of basaltic lava
- B** A high speed, high density mix of volcanic ash, gas and lava blocks
- C** A low density mix of ash, pumice and other volcanic materials that travel at a slow speed
- D** A turbulent cloud of ash that rises out of the main vent and parasitic cone of a volcano

0 1 · **5** A government of a tectonically active country invests in country-wide earthquake drills and retro-fitting buildings to improve their stability. Which of the following describes their actions?

[1 mark]

- A** Adjustment and adaptation
- B** Earthquake prediction
- C** Hazard fatalism
- D** Tectonic mitigation

Turn over for the next question

Turn over for the next section

Section B – Hot Desert Systems and Landscapes

Answer **all** questions in the spaces provided

Only **one** answer per question is allowed.


For each answer 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. 

0 5

1

Which of the following accurately describes the location of hot deserts and their margins?

[1 mark]

- A** Found in areas 5° north and south of the equator
- B** Only in coastal areas with a rain shadow
- C** Predominantly found in Africa and South America
- D** Situated around the tropics of Cancer and Capricorn

0 5

2

Which of the following annual precipitation ranges describes an arid desert?

[1 mark]

- A** Less than 100mm
- B** 100mm - 250mm
- C** Less than 100mm
- D** More than 500mm

05

3

Which of the following groups are types of desert weathering?

[1 mark]

- A** Exfoliation; chemical weathering; surface creep; thermal fracture
- B** Granular break down; chemical disintegration; hydraulic action; block separation
- C** Surface creep; deflation; chemical fracture; suspension
- D** Thermal fracture; granular disintegration; exfoliation; block separation

05

4

What is desertification?

[1 mark]

- A** Desert areas become more developed and there is an increase in population in these areas compared to previously
- B** The process by which useful land and environments slowly becomes more like a desert. The amount of natural vegetation decreases and soil becomes degraded
- C** The process of people moving agriculture into desert areas due to investments and developments in technology
- D** Where arable farming land around a coastal desert is used for alternative processes such as pastoral farming, housing developments and industrial zones

05

5

An exogenous river is defined as what?

[1 mark]

- A** A river that is perennial and flows all year round as its mouth is outside of the arid zone
- B** A river which is drained in an inland lake due to high rates of water loss and evaporation
- C** A river with a source that begins in a non-arid area, which allows the river to flow throughout the year
- D** A river with high discharge and sediment that only flows after rainfall

Figure 2a shows areas at risk of human induced desertification

Figure 2b shows global population by region since 1820.

Figure 2a

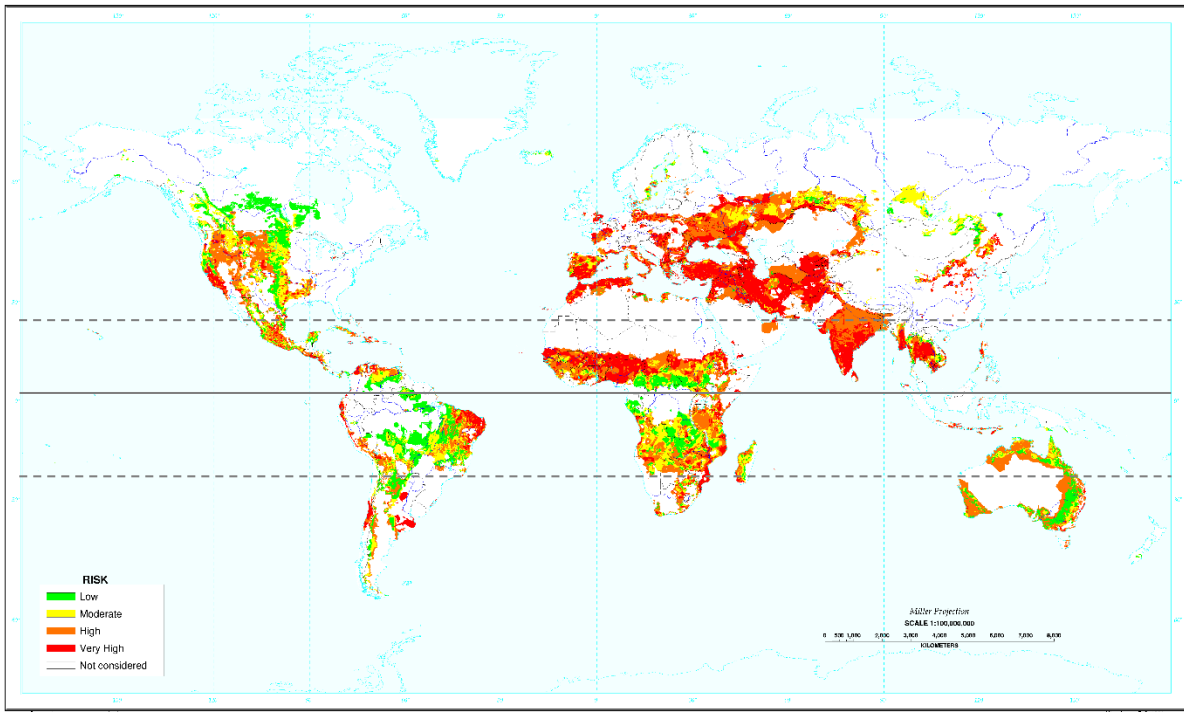
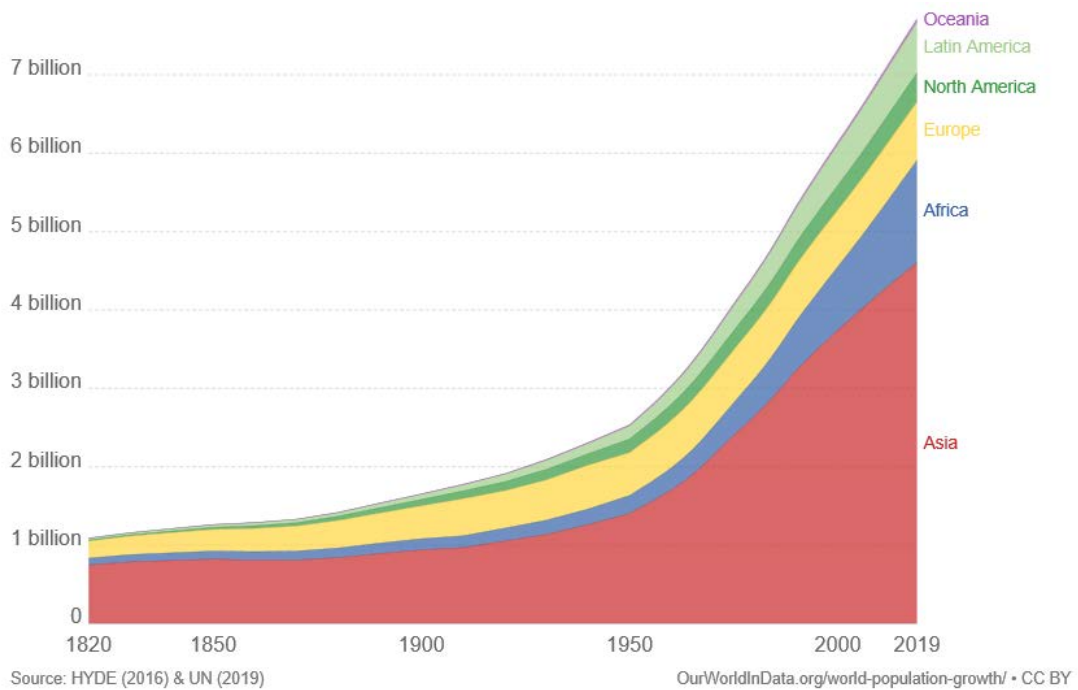


Figure 2b



0	6
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Analyse the data shown in **Figure 2a** and **Figure 2b**.

[6 marks]

Turn over ▶

0	8
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'The role of water is more influential than the role of wind in creating desert landscapes';

To what extent do you agree with this view?

[20 marks]

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ANSWER IN THE SPACES PROVIDED**

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Figure 2a: Desertification map, USDA-NRCS, Soil Survey Division, World Soil Resources, Washington DC, Population density map, Tobler, W, V, Delchmann, J. Gottsegen, and K. Maloy. 1995. The global demography project. Technical Report TR-95-6. National Centre for Geographic Information analysis. Univ Santa Barbara CA 75pp

Figure 2b: © World Population in 2018 by Max Roser for Our World in Data.org Licensed under CC-BY-8A

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