8.5 Water Security: Rising Demand and Factors Affecting Supply: 10-minute Pack

AQA 8035 · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Define the term 'water security' as it is used when discussing national or regional supplies of fresh water.

(Total for Question 1 is 1 mark)

2 Give one reason why global domestic water consumption has increased in recent decades.

(Total for Question 2 is 1 mark)

3 Give one way rising living standards can increase household water use in urban areas.

(Total for Question 3 is 1 mark)

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4 Suggest one reason why agriculture is the largest user of water in many countries.

(Total for Question 4 is 1 mark)

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5 Describe the pattern shown on this simple world map of water stress categories. Map key: Low stress, Medium stress, High stress, Extremely high stress. Regions: North Africa and the Middle East = Extremely high stress; Western Europe = Low stress; South Asia (northern India, Pakistan) = High stress; Western United States and parts of Australia = Medium to High stress.

(Total for Question 5 is 4 marks)

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Mark scheme · 8.5 Water Security: Rising Demand and Factors Affecting Supply: 10-minute Pack

Question 1

secure access to enough safe, reliable fresh water for people, agriculture and industry, oe **B1**

Answer: Secure access to enough safe, reliable fresh water for people, agriculture and industry.

Question 2

population growth, oe **B1**

Answer: Population growth.

Question 3

more appliances such as washing machines and dishwashers in homes, oe **B1**

Answer: More appliances such as washing machines and dishwashers in homes.

Question 4

large areas of irrigated crops need water continuously, oe **B1**

Answer: Large areas of irrigated crops need water continuously.

Question 5

identify one broad pattern, e.g. arid regions such as North Africa and the Middle East show extremely high water stress, oe **B1**

identify a contrasting area, e.g. Western Europe shows low water stress, oe **B1**

identify another high stress region, e.g. South Asia (northern India and Pakistan) shows high stress, oe **B1**

make a linked observation about distribution, e.g. water stress tends to be highest in arid climates and in densely populated agricultural regions, oe **B1**

Answer: Arid regions such as North Africa and the Middle East have extremely high water stress, while Western Europe has low stress. South Asia, especially northern India and Pakistan, shows high stress, and semi arid areas like western USA and parts of Australia have medium to high stress. Overall, stress is greatest in dry climates and in densely populated agricultural areas.

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