7.5 Global Food Security: Supply, Insecurity and Increasing Production: 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 food security, as used in global food supply discussions.

(Total for Question 1 is 1 mark)

2 Give one social consequence of food insecurity for children in low income countries.

(Total for Question 2 is 1 mark)

3 Give one physical factor that can reduce food supply globally.

(Total for Question 3 is 1 mark)

4 Give one way that increasing food production through technology could reduce the environmental impact compared with expanding farmland area.

(Total for Question 4 is 1 mark)

5 Name one water-related agricultural strategy used to increase food supply and one biological strategy, without naming a specific scheme or company.

(Total for Question 5 is 2 marks)

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6 Suggest two human causes that can contribute to food insecurity at a national scale.

(Total for Question 6 is 2 marks)

7 Explain one advantage and one disadvantage of using irrigation to increase food production, without naming a specific irrigation scheme.

(Total for Question 7 is 2 marks)

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Mark scheme · 7.5 Global Food Security: Supply, Insecurity and Increasing Production: 10-minute Pack

Question 1

secure access by all people at all times to sufficient, safe and nutritious food for an active and healthy life, oe **B1**

Answer: Secure access by all people at all times to sufficient, safe and nutritious food for an active and healthy life.

Question 2

for example, stunted growth or impaired cognitive development, oe **B1**

Answer: Stunted growth or impaired cognitive development.

Question 3

for example, drought or unreliable rainfall reducing crop yields, oe **B1**

Answer: Drought or unreliable rainfall reducing crop yields.

Question 4

for example, vertical farming or hydroponics produces more yield per unit area, reducing the need to clear natural habitats, oe **B1**

Answer: Hydroponics or vertical farming produces higher yield per unit area, reducing the need to clear natural habitats for more farmland.

Question 5

irrigation, oe **B1**

biotechnology such as crop breeding or tissue culture, oe **B1**

Answer: Irrigation; biotechnology such as crop breeding or tissue culture.

Question 6

for example, conflict disrupting farming and distribution networks, oe **B1**

for example, poverty limiting farmers access to inputs and markets, oe **B1**

Answer: Conflict disrupting farming and distribution; poverty limiting farmers access to inputs and markets.

Question 7

advantage, e.g. irrigation increases water availability so yields can rise and multiple crops per year are possible, oe **B1**

disadvantage, e.g. overuse or poor management can cause salinisation or water depletion, reducing long term productivity, oe **B1**

Answer: Advantage: irrigation increases water availability and can raise yields or allow multiple crops per year. Disadvantage: overuse or poor management can cause salinisation or depletion of water resources, harming long term productivity.

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