

AQA, OCR, Edexcel

GCSE Science

GCSE Biology

**Sustainable Food Production
Answers**

Name:

M M E

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Total Marks: /20

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Q1: Explain the term sustainable food production.

A= A source of food that can be maintained

(1 mark)

Q2: Give an example of a fish species, which has been over fished.

A= Accept any of the following:

- Cod
- Salmon
- Tuna

(1 mark)

Q3: Circle the quota measures used to aid fish stocks.

Season

Size

Type of Fish

Weight

Colour

Net Size

A= 1 mark for each correctly circled answer

(4 marks)

Q4: Quotas help fish stocks. Give one way fisherman try to by-pass the fishing quotas.

A= Throw back dead fish or fish over/outside of the fishing quota

(1 mark)

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Q5: Discuss the differences between the small-scale fishing and trawler fishing effects on the environment.

A= Accept any 3 for small-scale fishing and accept any 3 for trawler fishing.

Trawler:

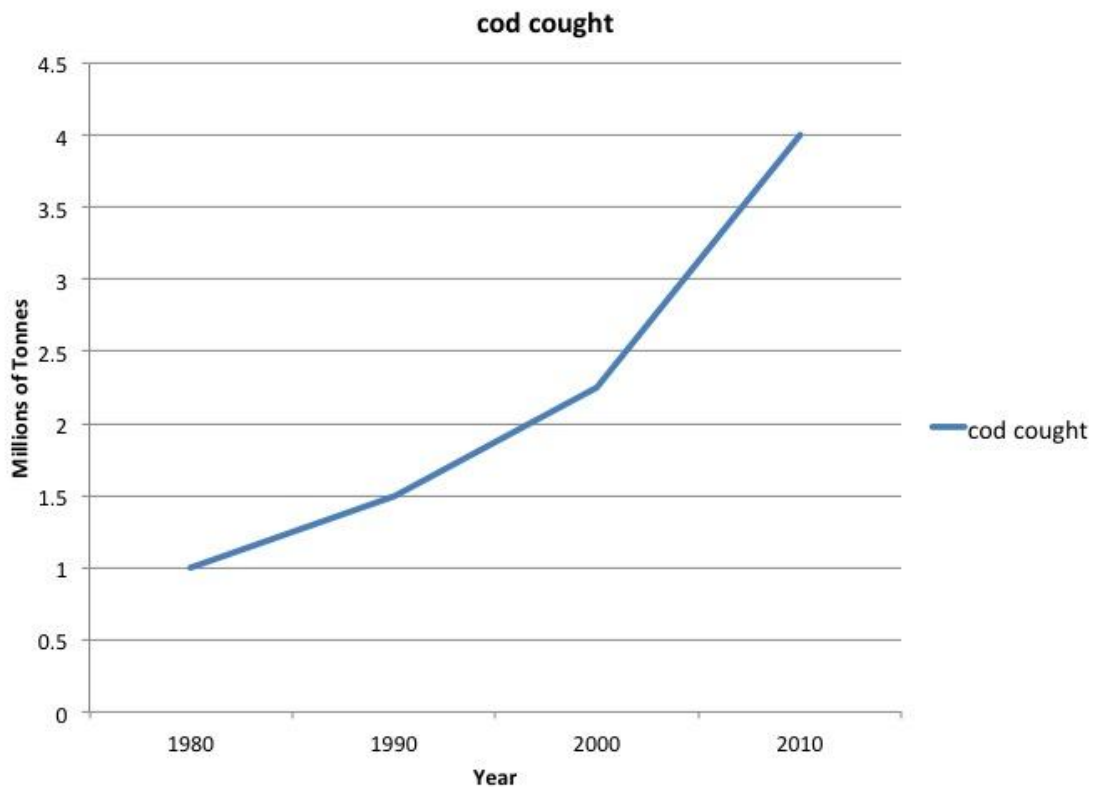
- Damage sea bed
- Affect non fished species
- High yield
- Quicker
- Cheaper

Small-Scale:

- Limited impact
- Smaller Yield
- Slow
- Expensive
- Can fish more specifically – e.g. specific species

(6 marks)

Q6: The graph below shows the number of cod caught from 1980 to 2010



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- i) Using the graph above how many tonnes of cod were caught in 2000?
A= 2.25 million Tonnes
Units must be included (1 mark)
- ii) Discuss the fishing trend shown in figure 1.
A= Accept any 2 of the following: (2 marks)
- Low Fishing in 1980's
 - Increased rate 1990's
 - Rapid increase since 2000
- iii) Given the information shown in figure 1. What effect would be seen in the fish stocks if the rate of fishing continues at its current rate?
A= 1 mark for each point: (2 marks)
- Over Fishing
 - Critical species level

Q7: Some fish species such as salmon can be farmed. Explain how farming salmon can help wild stock to recover from overfishing.

A= Accept any 2 of the following:

- Reduces wild fishing
- Quicker growth
- Larger yield

(2 marks)