

# OCR

Oxford Cambridge and RSA

## Monday 11 May 2015 – Morning

### AS GCE ECONOMICS

F581/01 Markets in Action

Candidates answer on the Question Paper.

**OCR supplied materials:**

None

**Other materials required:**

- Calculators may be used

**Duration:** 1 hour 30 minutes



Candidate forename		Candidate surname	
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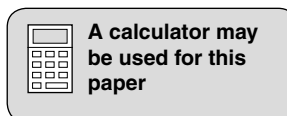
Centre number						Candidate number				
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#### INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. If additional space is required, you should use the lined pages at the end of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the bar codes.

#### INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [ ] at the end of each question or part question.
- The total number of marks for this paper is **60**.
- The quality of your written communication will be taken into account in the marking of your answer to the question labelled with an asterisk (\*).
- This document consists of **16** pages. Any blank pages are indicated.



## The Po Valley – controversy in one of Europe’s major agricultural areas over market-driven change

A change is taking place in agriculture in the Po Valley in northern Italy, the heartland of Italy’s agricultural industry. This is partly because of the European Union’s (EU) promotion of the use of energy from renewable resources. The EU subsidises farmers who grow biofuel crops which can be turned into fuel.

According to a survey carried out in 2011, 1.6% of the surface of the Po Valley was used for the production of biofuel crops. A local farmer commented, “Many farmers have stopped breeding pigs and cattle, growing rice and wheat and have begun to grow biofuel crops. But they have lost their ability to think in the long term. These biofuel crops will destroy the fertility of the soil within ten years and are also changing the landscape.”

Some conservationists claim that this switch to biofuel crops, such as maize, has already changed the ecosystem of the Valley. A local conservationist commented, “We risk becoming a desert as biofuel crops need much more water than rice and wheat to grow. The natural water supply cannot satisfy this demand.” It is claimed that there will not be enough water for the irrigation of the rice fields in the Po Valley. Another impact would be that open spaces, rivers and lakes, currently freely available for leisure activities will be reduced as more land is claimed for maize production.

Others, however, say that the changes in the region are a perfect example of market economics in action, with farmers switching to growing biofuel crops which will meet the consumer demand for affordable and sustainable energy. They argue that the extra revenue from growing biofuel crops has prevented many farmers from going out of business and that farmers are simply responding to market forces.

Since farmers can flood or drain fields within a few days, they can decide relatively quickly at the beginning of each growing season whether to grow rice, wheat or maize depending on the market price of each crop.

Other farmers in the Valley grow grapes for wine. Changes in the output of grapes are much slower as it takes seven years for a newly-planted grape vine to produce grapes that can be made into wine.

The price of agricultural products can change by significant amounts from year to year. Fig. 1 shows changes in the price and supply of some crops produced in the Po Valley in 2011 compared with 2010.

**Changes in the price and supply of wine grapes and rice produced in the Po Valley in 2011 compared with 2010**

	2011
% change in price	
Wine grapes	11.10
Rice	18.50
% change in quantity supplied	
Wine grapes	2.22
Rice	12.95

**Fig. 1**



3 (a) What is meant by the term 'consumer surplus'?

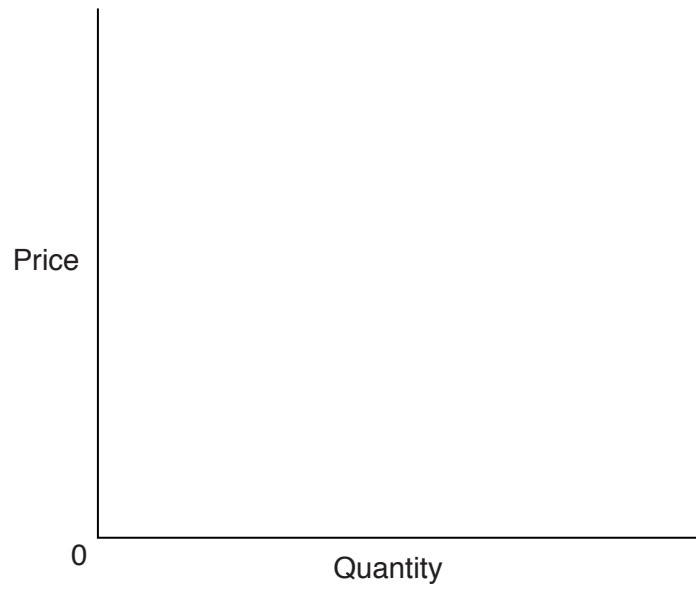
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..... [2]

(b) Using a supply and demand diagram, show how consumer surplus would change if the supply of a product decreased.



[4]

4 (a) What is meant by price elasticity of supply?

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..... [2]

(b) Calculate the price elasticity of supply of:

(i) wine grapes

.....  
.....  
..... [1]

(ii) rice

.....  
.....  
..... [1]



5 Explain **two** reasons why the demand for some agricultural products is more price elastic than other agricultural products.

1 .....

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2 .....

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..... [4]









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A series of 25 horizontal dotted lines spanning the width of the page, providing a ruled area for writing answers.

**END OF QUESTION PAPER**

**ADDITIONAL ANSWER SPACE**

If additional answer space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margins.

This section of the page is a large, empty area of lined paper. It consists of approximately 25 horizontal dotted lines spaced evenly down the page. A solid vertical line runs down the left side of this area, creating a margin. This is intended for students to write their answers to questions that require more space than the previous page.

This image shows a vertical ledger page. It features a solid vertical line on the left side, creating a narrow margin. The rest of the page is filled with horizontal dotted lines, spaced evenly down the page, forming a grid for data entry. There are 26 horizontal dotted lines in total, including the top and bottom lines, which create 25 rows for writing.



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