

AS ECONOMICS 7135/1

Paper 1 The operation of markets and market failure

Specimen 2014

Morning

ng Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- the source booklet
- the use of a calculator.

Instructions

- Use a black ball-point pen. Do **not** use pencil.
- Answer all questions in Section A.
- Answer EITHER Context 1 OR Context 2 in Section B.
- You will need to refer to the source booklet provided to answer Section B.
- Do all rough work in this answer book. Cross through any work you do not want to be marked.
- You must answer the question in the spaces provided. Do not write outside the box around each page or on blank pages.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 70.
- No deductions will be made for wrong answers.

Please write clearly, in block capitals, to allow character computer recognition.																		
Centre number						Car	ndic	late	nu	mb	er							
Surname]
Forename(s)]
Candidate signa	ature _											 	 	 			 	_)

Section A					
	Answer all questions in this section				
Only one a	nswer per question is allowed.				
For each a	nswer completely fill in the lozenge alongside the appropriate answer.				
CORRECT MET	HOD WRONG METHODS 😵 💿 🚌 🗹				
If you want	to change your answer you must cross out your original answer as shown.				
If you wish as shown.	to return to an answer previously crossed out, ring the answer you now wish to select				
0 1	Diseconomies of scale occur when				
	A average cost falls due to the growth of a firm.				
	B average cost rises due to a firm reducing its output.				
	C total cost rises due to the growth of a firm.				
	D average cost rises due to the growth of a firm. [1 mark]				
02	The diagram below shows two demand curves for frozen peas. Price D_1 D_2 D_2 D_1 D_2				
	A an increase in the quantity of frozen peas supplied.				
	B an increase in the price of frozen peas.				
	C a change in consumer preference for frozen peas.				
	D a decrease in the price of a substitute for frozen peas. [1 mark]				

A key distinction between merit goods and demerit goods is that 0 3 A the consumption of merit goods usually gives rise to positive \bigcirc externalities and not negative externalities. B in a free market demerit goods will be under-consumed \bigcirc but merit goods will be over-consumed. C merit goods have to be provided by the government but \bigcirc demerit goods do not. D demerit goods are an example of market failure but \bigcirc merit goods are not. [1 mark] 0 4 A profit-maximising firm with market power is most likely to use that market power to A improve the allocation of resources. \bigcirc B charge higher prices than firms with little market power. \bigcirc C charge customers for its negative externalities in production. \bigcirc D increase the elasticity of its supply curve. \bigcirc [1 mark] 0 5 If demand for a product is unit elastic, for a given percentage increase in price, total revenue will A rise by the same percentage. \bigcirc B rise by a smaller percentage. \bigcirc C fall by the same percentage. \bigcirc D remain unchanged. \bigcirc [1 mark]



0 8	Which one of the following is most likely to make a market more co	ompetitive?	
	A An increase in the cost of equipment used in the production process.	0	
	B The development of a successful new product by the largest firm in the market.	0	
	C An increase in the degree of concentration in the market.	0	
	D The removal of legal barriers to entry into the market.	0	[1 mark]
09	A supermarket reduces the price of tins of biscuits from £4 to £3 p Subsequently, the sales increase from 200 to 300 tins of biscuits p The price elasticity of demand is	er tin. ber day.	
	A -2.0	0	
	B -1.0	0	
	C -0.50	0	
	D -0.25	\bigcirc	[1 mark]
			[i illaikj
1 0	Which one of the following statements about money and specialisation	ation is corre	ect?
	A Money can be used only in markets where there is specialisation in production.	0	
	B Money is used as a medium of exchange which aids specialisation.	0	
	C Greater specialisation is likely to lead to a reduction in the use of money in a market.	0	
	D The use of money benefits workers more than consumers because of specialisation.	0	[1 mark]

1 1	The table below	shows the value	e of income elasticities of	demand for three g	oods, X,
	Y and Z, over a	period of time.			
		Good	Income elasticity of demand		
		Х	+2.0		
		Y 7	+0.2		
	l	Ζ.	-1.9		
	From the data in would lead to	n the table, it ma	y be concluded that an in	crease in consume	r income
	A a decrease in	n demand for Go	od Z only.	0	
	B an increase i	n demand for all	three goods.	0	
	C a more than	proportionate inc	crease in demand for Goo	od Y. 💿	
	D an equal per	centage increase	e in demand for Good X.	0	[1 mark]
1 2	Which one of th government?	e following is the	e reason why public good	s are supplied by th	e
	A Sellers of the from enjoying	e good or service g its benefits with	are unable to prevent co nout payment.	onsumers 💿	
	B Producers de public are pro	emand a higher p epared to pay.	price than some members	s of the 💿	
	C Only governr produce pub	ments have the t lic goods and se	echnical knowledge requi rvices.	ired to	
	D They can on competition f	y be produced b rom rival supplie	y a monopoly firm to prev rs.	vent 💿	
					[1 mark]
1 3	Price elasticity of	of supply in an in	dustry is likely to be elast	tic when	
	A firms have lir	nited stocks of ra	aw materials.	0	
	B there are hig	h barriers to entr	y into the industry.	0	
	C production in	volves the use o	f highly skilled labour.	0	
	D firms are ope	erating below full	capacity.	0	[1 mark]

Which one of these is a function of the market mechanism? 1 4 A Maintaining stable prices between different markets. \bigcirc B Eliminating shortages of goods by allowing market prices to fall. \bigcirc C Achieving an equitable distribution of scarce resources. \bigcirc D Providing incentives for firms to provide goods to make \bigcirc a profit. [1 mark] 1 5 The table below shows how the total output of a factory changes as the number of workers employed changes. Number of Total output (in units) workers 1000 100 2500 200 6000 300 7000 400 8000 500 Referring to the data in the table, what happens to labour productivity as the number of workers increases from 100 to 500? Labour productivity A remains constant. \bigcirc B falls over the whole range. \bigcirc C rises at first and then falls. \bigcirc D falls at first and then rises. \bigcirc [1 mark] 1 6 Which one of the following is a positive economic statement? A The pattern of wealth ownership in the UK is unfair. \bigcirc B There are too many poor people in the UK today. \bigcirc C The distribution of income in the UK is unequal. \bigcirc D The rich should be taxed more than the poor. \bigcirc [1 mark]



The table below shows the world beer market share (%) by volume for brewing 19 companies. Market share (%) Company AB InBev 22 SABMiller 13 Heineken 9 Carlsberg 7 3 Molson Coors Grupo Modelo 3 Tsingtao 3 2 **Beijing Yanjing** FEMSA 2 Other 36 Total 100 From the data in the table, what is the eight-firm concentration ratio? A 57% \bigcirc B 60% \bigcirc C 62% \bigcirc D 64% \bigcirc [1 mark] In the table below, all other things being equal, which combination of factors A, B, C or 2 0 D is most likely to enable a firm in a competitive market to increase its market share? Firm's degree Price elasticity Firm's long of demand for of product run average differentiation firm's product cost subject to Diseconomies A Low \bigcirc High of scale Diseconomies В Low High \bigcirc of scale Economies of \bigcirc С High High scale Economies of D Low Low \bigcirc scale [1 mark] **QUESTION 20 IS THE LAST** QUESTION IN SECTION A

	Section B
Look	at the source booklet and choose to answer EITHER Context 1 OR Context 2.
	Answer EITHER Questions 21 to 26 in the spaces below
	OR Outputiene 27 to 22 on normal 10 to 27 of this one way headylat
	Questions 27 to 32 on pages 19 to 27 of this answer booklet.
	There is a total of 50 marks for either context.
Shade the lo	zenge below to indicate which context you have answered.
Context 0	
	OS 🔊 🔍 🔹 💋 CORRECT METHOD 🗨
EITHER	
Context 1	Total for this Context: 50 marks
FREE SCHOO	DL MEALS
Using the prov answer the que	ided source booklet, study questions 21 to 26 and Extracts A , B and C , and then estions in the spaces which follow.
2 1	Define the term 'externalities' (Extract B, line 22).
	[3 marks]
	Extra space

2 2	Extract B (line 2) states that spending on food by low-income families 'forms a significant part of their total weekly spend.'
	Calculate the income elasticity of demand for food if an increase in income from £25 000 to £30 000 leads to an increase in the quantity demanded of food of 10%. [4 marks]
2 3	Using Extract A , identify two significant points of comparison between the changes in the index of average disposable income and the changes in the index of food prices over the period shown
	[4 marks]
	Comparison 1
	Comparison 2



2 5	Extract B (line 1) states that 'In recent years, food prices have risen faster than incomes.'
	Explain two possible reasons, other than a change in income , for the rise in the price of food over the period shown. [10 marks]
	Extra space







Extra space



	Do not answer Context 2 if you have answered Context 1.	
OR		
Context 2	Total for this Context: 50 ma	rks
COMMODITY	PRICES	
Using the provi answer the que	vided source booklet, study questions 27 to 32 and Extracts D , E and F and then lestions in the spaces which follow.	l
2 7	Define 'monopoly' (Extract E, line 4). [3 m	arks]
	Extra space	

28	Extract E (line 6–7) states that 'the price of potash is expected to fall from around \$400 to \$300 per tonne by the end of 2013.'
	Calculate the price elasticity of demand for potash if this fall in price leads to an increase in the quantity demanded of 10%.
	[4 marks]
29	Using Extract D , identify two significant points of comparison between the changes in the price of potash and the changes in the price of crude oil over the period shown. [4 marks]
	Comparison 1
	Comparison 2



3 1	Extract E (lines 1–2), states 'Potash is one of three main fertiliser products which farmers use to increase their output before planting crops such as wheat.'
	Explain the possible effects on the market for wheat of a fall in the price of a fertiliser
	such as potash. [10 marks]
	Extra space



3 2	Extract F (lines 15-16) states that 'Commodities are vital as the raw materials and
	energy sources to make missing products.
	Using the data in the extracts and your economic knowledge, assess whether market forces should be left to determine the price of commodities such as potash, oil and
	[25 marks]



Extra space



END OF QUESTIONS

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AS ECONOMICS 7135/1

Paper 1 The operation of markets and market failure

Source booklet

DO NOT WRITE ANY ANSWERS IN THIS SOURCE BOOKLET. YOU MUST ANSWER THE QUESTIONS IN THE PROVIDED ANSWER BOOKLET.

Context 1 Free school meals

Questions 21 to 26

- Extract A: Index of average household disposable income, and index of food prices, in the UK 2008 to 2012
- Extract B: The rising cost of food
- Extract C: There's no such thing as a free lunch

Context 2 Commodity prices

Questions 27 to 32

- Extract D: Average monthly world prices of potash and crude oil, January 2009 to September 2013
- Extract E: Competition in the potash market
- Extract F: Commodities markets: should governments intervene?

Insert to 7135/1

Total for this Context: 50 marks

Context 1

FREE SCHOOL MEALS

Extract A: Index of average household disposable income, and index of food prices, in the UK 2008 to 2012 (2008 = 100)

Year	Disposable income	Food prices
2008	100	100
2009	102	106
2010	105	109
2011	110	114
2012	108	118

Note: All figures are rounded

Extract B: The rising cost of food

In recent years, food prices have risen faster than incomes, making it harder for many low-income families to buy food which forms a significant part of their total weekly spend. On average, 11.3% of household income was spent on food in 2011, up from 10.5% in 2007. However, for the poorest 20% of households, their spending on food rose from 15.2% to 16.6% in the same period. Record numbers of people are using 'food banks', where charities provide emergency food to those struggling to feed themselves and their families.

Food prices have been rising for a number of reasons, including climate change and population growth. A spokesperson for the Food Ethics Council charity recently called for food businesses and the Government to tackle the issue of making healthy food 10 affordable, claiming that 'cheap food', which is often an inferior good, was causing problems for health and the environment.

Many low-income households are already buying so-called 'value' products, so can't switch to cheaper brands. They are also less likely to buy ethical products such as free-range eggs. Between 2007 and 2011, the poorest households have cut spending on fruit 15 by 15% and vegetables by 12%, yet their spending on sweets rose by 5%. In 2011, 62% of adults in England were either obese or overweight, whilst 1 in 20 children has no fruit or vegetables in their diet.

The cost of treating illnesses caused by bad diet is £6 billion per year. Considerable amounts of food are wasted each year, much of which is not used in time, bread being the most wasted food. And although much more food waste is being recycled, some still ends up in scarce landfill waste sites. These externalities cannot be ignored.

Source: News Reports; October 2013

Source: Official statistics, October 2013

Extract C: There's no such thing as a free lunch

It has recently been announced that from September 2014, all infant school children in 1 England will receive free school lunches. On average, this will save parents over £400 a year and maybe more, if it leads to them spending less on evening meals.

At present, free school meals are only available to those on low incomes but children do not receive them unless they are claimed. In a trial scheme, where all primary school children were given free lunches, the take-up rose from roughly 50% in both areas to 72% in one and 85% in the other.

Those in favour claim that children will receive 'proper food', with improvements in concentration and behaviour leading to better academic achievement and health. As well as the private benefits, there will be considerable external benefits. Some would argue 10 that the scheme should be extended to all school children.

Critics argue that the £600 million a year will be subsidising children from well-off families and would be better spent on other areas or to directly support children from low-income families. And how will it be funded?

When announcing the scheme, the Deputy Prime Minister, Nick Clegg stated: "Free 15 school meals will help give every child the chance in life they deserve, building a stronger economy and a fairer society."

Source: News Reports; October 2013

5

Turn over for Context 1 questions

Context 1 - Questions 21 to 26

2 1	Define the term 'externalities' (Extract B, line 22). [3 marks]
22	Extract B (line 2) states that spending on food by low-income families 'forms a significant part of their total weekly spend.'
	Calculate the income elasticity of demand for food if an increase in income from $\pounds 25\ 000$ to $\pounds 30\ 000$ leads to an increase in the quantity demanded of food of 10%.
	[4 marks]
23	Using Extract A , identify two significant points of comparison between the changes in the index of average disposable income and the changes in the index of food prices over the period shown. [4 marks]
2 4	In Extract B (line 11) it states that a spokesperson for the Food Ethics Council charity recently claimed that 'cheap food' is often an inferior good.
	Draw a supply and demand diagram showing the effects of an increase in income on the price and quantity sold of an inferior good.
	[4 marks]
2 5	Extract B (line 1) states that 'In recent years, food prices have risen faster than incomes'.
	Explain two possible reasons, other than a change in income , for the rise in the price of food
	[10 marks]
2 6	Extract C (lines 15–17) states that 'Free school meals will help give every child the chance in life they deserve, building a stronger economy and a fairer society.'

Using the data in the extracts and your economic knowledge, assess whether the government should provide free school meals for all, some or no school children.

[25 marks]

Turn over for Context 2

Context 2

Total for this Context: 50 marks

COMMODITY PRICES

Extract D: Average monthly world prices of potash and crude oil, January 2009 to September 2013

Year	Potash average monthly price, US\$ per tonne	Crude oil average monthly price, US\$ per barrel
2009	630	62
2010	330	80
2011	440	111
2012	460	112
2013	390	109

Source: Official statistics, October 2013

Notes: The 2013 figures are the average monthly prices for the nine months to September. All figures are rounded.

Extract E: Competition in the potash market

Potash is one of three main fertiliser products which farmers use to increase their output 1 before planting crops such as wheat. Potash is an important natural resource, but for many years, the majority of the world's potash has been sold through two companies, which set the same prices. The companies effectively worked together as a monopoly.

However, it has recently been announced that the arrangement between these two companies has ended. As a result, the price of potash is expected to fall from around \$400 to \$300 per tonne by the end of 2013. It has been estimated that this would cut total costs by 3% an acre for many producers. This is good news for farmers and it could also lead to lower food prices in the supermarkets.

The fall in potash prices is in contrast to the situation in the first decade of this century, 10 during which prices tripled, partly due to higher demand in China and India. Although this encouraged an increased supply, the higher price made the product less affordable, particularly in India, where the government had also cut farming subsidies.

Although prices may now fall in the short term, this may not last due to continued population growth and changing patterns in the demand for food. However, with more 15 competition between firms, there should be some gains for buyers, at least for a while.

Source: News reports, October 2013

5

Extract F: Commodities markets: should governments intervene?

Oil is another commodity where suppliers have worked together to control prices. The Organization of the Petroleum Exporting Countries (OPEC), a group of 12 major oil-producing countries, has managed the supply of oil for over 50 years to try to control the price.

This has reduced fluctuations in price for both producing and consuming countries, although when producers work together, the price tends to be higher than it would be if there was more competition.

One effect of high oil prices is to encourage the development of other sources of energy. 'Fracking' involves obtaining gas or oil from shale rock using large quantities of water. There is considerable use of fracking in the US but there are environmental concerns, including air, water and noise pollution. Some countries have banned the technique. There are large reserves of shale gas in the UK and a firm has undertaken work to explore the possibility of fracking at a site recently. However, firms will need a licence if they are to be allowed to begin this type of work in future.

Commodities are vital as the raw materials and energy sources to make finished products. Should market forces be left to determine the price and output of these commodities or should governments intervene, and if so, which policies are most appropriate? Does it matter if sellers with considerable market power set the price, particularly when commodity prices may change frequently otherwise?

Source: News reports, October 2013

Turn over for Context 2 questions

15

1

5

Context 2 - Questions 27 to 32

2 7 Define 'monopoly' (Extract E, line 4).

[3 marks]

2 8 **Extract E** (line 6–7) states that 'the price of potash is expected to fall from around \$400 to \$300 per tonne by the end of 2013.'

Calculate the price elasticity of demand for potash if this fall in price leads to an increase in the quantity demanded of 10%.

[4 marks]

2 9 Using **Extract D**, identify **two** significant points of comparison between the changes in the price of potash and the changes in the price of crude oil over the period shown.

[4 marks]

3 0 Using **Extract D**, draw a bar chart to show the average monthly price of potash in the years 2009 to 2013.

[4 marks]

3 1 Extract E (lines 1–2), states 'Potash is one of three main fertiliser products which farmers use to increase their output before planting crops such as wheat.'

Explain the possible effects on the market for wheat of a fall in the price of a fertiliser such as potash.

[10 marks]

3 2 Extract F (lines 15–16) states that 'Commodities are vital as the raw materials and energy sources to make finished products.'

Using the data in the extracts and your economic knowledge, assess whether market forces should be left to determine the price of commodities such as potash, oil and gas.

[25 marks]

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