# **Candidate Marks Report**

## Series: 6 2018

This candidate's script has been assessed using On-Screen Marking. The marks are therefore not shown on the script itself, but are summarised in the table below.

Centre No : Assessment Code : H460 Candidate No : Component Code : 01

Candidate Name:

Total Marks: 75 / 80

In the table below 'Total Mark' records the mark scored by this candidate. 'Max Mark' records the Maximum Mark available for the question.

Paper: Paper Total:	H460/01 75 / 80	
Question	Total / I Mark I	Max Used Mark In Total
1a	2/2	2
1b	2/3	S 🕜
1ci	2/2	<u> </u>
1cii	2/3	S 🕜
1d	5 / 8	S 🕜
1e	12 / 1	2 🌽
2 3	NR / 2	25
	25 / 2	25 🏑
4	25 / 2	25 🎺
5	NR / 2	25

#### **SECTION A**

Read the following stimulus material and answer all parts of Question 1 which follow in this section.

## Who should pay for students to study at university?

The proportion of university education provided by the public sector and the private sector varies throughout the world. Most UK universities are generally considered to be in the public sector. In 2017, there were only five private sector universities in the country. The difference between public sector and private sector universities, however, is changing. This is the result of a shift in the funding of higher education, particularly in England. Universities are obtaining less of their income from government financed teaching grants and an increasing proportion from tuition fees. Fig. 1 shows how the amount of government spending on higher education has fallen in recent years.

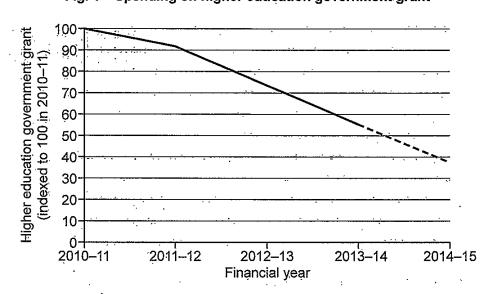


Fig. 1 - Spending on higher education government grant

Note: Figure for 2014–15 was a predicted figure. Figures are in real terms, adjusted for inflation using the GDP deflator.

Tuition fees were introduced in 1998 at a maximum of £1,000 a year. By 2017, these had risen to a maximum of £9,250 for UK and EU students studying in England. Most universities charge this maximum annual fee. In October 2017, the government announced that it was freezing tuition-fees at £9,250 instead-of-increasing them-in-line-with inflation and raising the student loan repayment threshold from £21,000 to £25,000. Most students would like the government to maintain the freeze for some time or even scrap tuition fees altogether.

Some A Level students do not gain the grades needed to take up university places. In other cases, however, it is tuition-fees which discourage them from applying to university. These students are concerned about future debt levels and value for money. The average pay for university graduates is higher than that for non-graduates. Future earnings, however, vary according to the subject studied, university attended and job gained after graduation. Currently the highest earning post graduates tend to have been students of medicine, veterinary science, economics and engineering. While the lowest earners are found to be former students of English Literature, communication, agriculture and creative arts. A Level pupils are also aware that the learning experience varies between courses and universities, with some undergraduates complaining about lack of contact hours and high numbers of students in seminar groups.





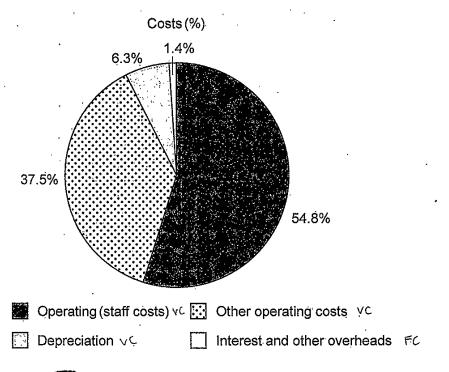
.

9 OCR 2018

\*-0009543277402 \*

While a limit on tuition fees may be welcome to many students, universities are concerned about the measure. They are worried that if they are not able to charge higher tuition fees and if they do not get more funding from the government, they will struggle to cover their costs. Universities' operating costs vary with the number of students they teach. Fig. 2 shows a breakdown of the total cost of £31.2 billion incurred by UK universities in 2014–2015 when they were educating 2.2 million students.

Fig. 2 – The composition of the total cost of UK universities 2014–2015



The cost of providing degree courses varies between subjects and universities. It is, for example, more expensive to provide engineering courses than English Literature courses. The University of Cambridge, for instance, spends more per student than the University of Bedfordshire.

The amount spent on education for people above school age (tertiary education), includes spending on degree courses and vocational courses. Such education provides a range of benefits not only to those who undertake the courses but also to others. Tertiary education increases a country's output and the productivity of its workers. UK universities are also creating an increasing number of spin-off companies which create new jobs:

Turn over



© OCR 2018

Fig. 3 shows how the proportion of people of two different age ranges who had completed tertiary education varied in selected countries in 2016, as well as average income in those countries.

Fig. 3:— The proportion of people who had completed tertiary education in selected countries in 2016

Country	25–34 year olds who completed tertiary education	55–64 year olds who completed tertiary education	Average income (GDP per head in US\$) 2016
Canada	60.6	46.2	42 200
Germany	30.5	26.3	42 000
Japan	60.1	39.7	39 100
New Zealand	43.4	28.2	39 400
South Korea	70.0	19.7	27 600
United Kingdom	52.0	37.6	39 900
United States of America	47.5	41.9	57 500



\* 0009543277404

### Answer all the questions.

ı	(a)	Explain, using evidence from the stimulus material, why higher education is a private good.
	•	Higher education is provided by the free market
		and so an annual price is charged to these who
		consume it, in 2017 the maximum price for Uk and EV
		s'idents was £9,250, Higher education does not
		experience a free-rider problem as public goods do and so is a
		Private good. [2]

(b) Calculate, using information from the stimulus material, the average fixed cost of educating a university student in 2014-2015.

TC=VC+FC TOTAL cost=£31.2 bn = VC+FC

FC=31.2-30.7

Explain whether the information in Fig. 3 about <u>average income</u> and about 25-34 year olds who had completed tertiary education shows the expected relationship between the

It is assumed that testiany education will increase output productivity havever to 3 does not support the our income in rounties with the highest Towest average income of \$27600. Germany has the lower rate at 30.5% but the 2nd highest average income of \$42,000. Therefore the relationship between the two is negative.

Turn over





Explain, using information in Fig. 3, which country is likely to have experienced the lowest relative increase in coccupational mobility over the last thirty to forty years. Only a small proportion of the Country olds, Herefore the flexibility of labour and occupational mobility 131

Evaluate whether students will benefit from the government freezing the maximum annual tuition fee for some time.

the government freeze the trution fee it will remain at 250, despite any increases in inflation. This can have positive Which this is thre depends on a number of factor.

annual trition fee, it will incentione

paid job in the long run as

agrigulture or creative ars, they are unlikely

© OCR 2018

to benefit as much as those who gain degrees in engineering or economics as these generate higher incomes after graduation. Furthermore, He annual trution fee may already bege too high and so there may be no benefits derived from freezing the maximum fee because Shident Still face an infair price. It is for this reason that the government should consider afternative such as scrapping the tuition feer altogether and providing information provision on why university is no beneficial. It can also be argued that a freeze On fees will benefit Students already in university, however in the long run, feer may increase significally to as more people truce Up conser at university. Following on increase in demand, the demand curve in'll shift right from D, to Dr. There will be an expansion in Supply and a new equilibrium of E will be admired following an increase that a preeze on fees can increase )fees in the lay run as demand Qz increases and the government Will have no choice but to increase feet and location £9250. This may been be charitable as the freeze will only last for a temporar period

Turn over

of time.



Price



(e) Evaluate, using evidence from the stimulus material, whether a (higher tuition fee should be charged to medical students than to English Literature students. find employment after graduation this is because jobs for Scmedical WA W2 W3 W1. nition feer for both English literature a percent of total income pariculary in a managerony employer SU Who have the power to charge lower wager to

© OCR 2018

doctors. Furthermore, a higher trition fee for medical students may reduce the amount of students appl completing medical degrees and this creater implication in society because mediane and healthare is an errential publice good that producer positive externalities. A strange in medical students with create a fall in the described demand for healthare strengtone a key men't good. Therefore, this in few should be kept the same. It could even be argued that trition feer for medical Evanhalent & should be lower because it will encourage more fearle to EVAL Indy medicine Herepre increasing the supply of doctors who provide healthcar which improve the welfare of society. Moreover, bright le extent to which higher in thit in feer thround be charged to medical Students depends on the costs faced by universities. Ar ses stated in line 27, without funding from the government, "universities Will struggle to cover their costs, therefore higher whomes may be necessary in doing so the university can then invest the extra revenue gained from increasing truition feet into improvements in remark facilities and teaching quality. This can decrease long run costs if the funds are used efficiently In conclusion, higher trition feer should be charged to medical strokens because they then have a more wage inelastic rupty of labour and a greater ferel of specialist shills, concequently they can demand higher wages and repay student loans faster compared to English [12] literature students who tend to have lower income jobs upon graduating. Higherty Therefore, higher feer increase equity KU EVAL and improve the distribution of income in the long run, however the universities passed should utilize the funds from higher feer and invest in reducing costs of so that trution feer do not have to remain high.

Turn over 🛌

### SECTION B

## Answer EITHER question 2 OR question 3.

#### **EITHER**

2\* Governments may use buffer stock systems to reduce the market failure caused by price instability.
Evaluate, using an appropriate diagram(s), the effectiveness of a buffer stock system in reducing market failure.
[25]

OR

3* Some	economists claim that	the <u>Royal Ma</u> il was	more efficient v	yhen it was a mo	nopoly.
CMA Evalua	ate, using an appropria	te diagram(s), whe	ther a <u>monopo</u> ly	will be efficient.	. [25]
Quést	ion no	,		٠	
TO THE	YES		: 1	<i>10</i>	
My Algan	anicipa Harv	g leibenttein	Production	> no.	- Lcs.
W. FC	gunier of Scale	zextened Sintenal	X-Ineffic	ilvy -> PST	TIF MENGE

A monapoly is a market structure in which there is one seller of a good or service. They was able dominate the market with a 25% share and they act as price the makers as they face are share and lay run profit maximisers and lack productive and allocative efficiency, however they can be efficient in other areas.

Manapolies are also operate into with little to no competition and so do not face pressure in lowering prices, as is the cae with other market structures such as observation and manapolistic or efficient of other market structures such as observation manapolist are efficient of entirely one tension.

CONTROL OF CONTROL OF

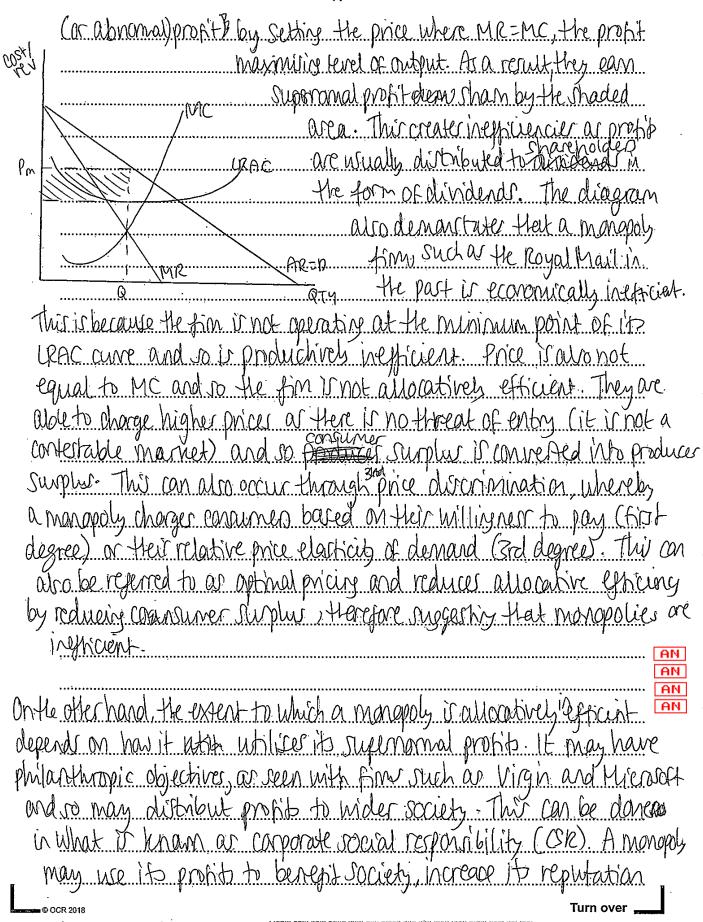
In an monopoly, fine page are able to make supernomal

■© OCR 2018





\* 0009543277410



and create a positive image. Furthermore, the manapoly theory disrumentiat our manapolice profit maximise, however there are other objectives that they may priduitize such of saler maximisation whereby AC=AIR or revenue maximisation (MR=0). There can increase a manapolice manual share and increase efficiency if such objectives are carried out alayside a lowering of prices. Therefore, the extent to which a manapoly is efficient defends on its objectives.

Furtermore, in the real word, a manopoly is likely to tage out profit Satisficing behaviour as a result of the principle-agent problem and this con create X-inefficiency. This occurres when actual average costs are higher than potential costs as a result of

Achalae organisational stack. This means
that a managoily does not exploit its

[xinequing potential potential for cost savings and so
may experience technical

inefficiencies. This may occur if a large manapoly decides to merge

or operational bottlenecher may create conflicts among marcholder.

On the other hand, a manapoly may experiency dynamic efficiency whenly it improves its coordination and technological production processes, this can be done by investing in recent and development which ack as a sunk cost this Dynamic efficiency can improve the quality of goods, therefore increasing allocative efficiency and proposerially productive efficiency in the long run if the firm involve heavily in human capital. Joseph Schumpeter.

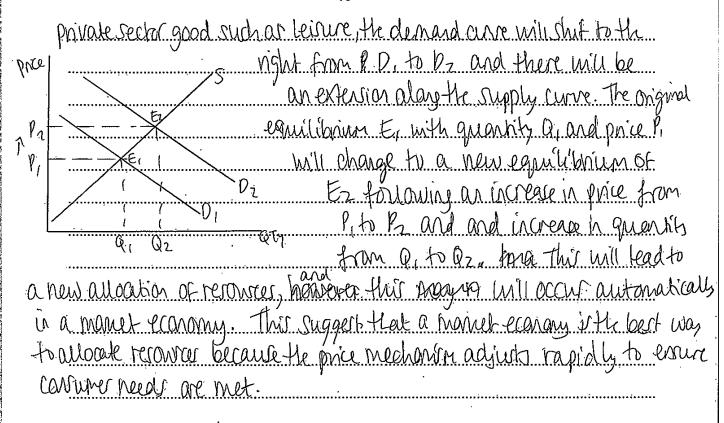
■© OCR 2018



agued that a preoccupation with static efficiency prevents dynamic efficiency in the longrum, therefore manapolies are the mast expicient marcet Strictures as supernamal propride fundo for improvents: Furtermore fle exect to which a manapoly will be eghicient depend on fletype manapoly. If it is a natural manapoly it is highly likely that there will be a greater degree of efficieng. This occio when the only one fim is riable in the mannet and the most exhibitent number is one gg/ Gy/ for example with railway networns. Natural manapolier face bugh fixed corb and lowernaginal coits. eac Therefore it URMC is below to LRAC. come In the case of a natural manapoly, monopolies are efficient Qty Moreover, the extent to which manapolies are efficient also depend on whether Hey decide to develop economies of scale-Internal economies of scale refere to an expansion in the firm Ce. 9 risk-bearing, financial, technichaland purchasing and ecanomics of scale). External ecanomics of scale improvements in the industries infrontacture. Here Suppose a manapoly is able to bulk buy, this will be done at a lower cost Herefore Econies Ofscale reducing LRAC and obtaining Oz ρ, output. This improve productive eghinency. However, if a min-efficel Pz manapoly grows too big Hey may experience directioner see additional. p. 152

Const of the Const	& fa	Planned  Note: Aline defence.  Note: Section C equality may be  Competition  Answer EITHER question 4 OR question 5.
	4*	Estonia continues to increase the role of market forces in its economy.
		Evaluate whether operating a market economy is the best way to allocate resources. [25]
		OR
	5*	Firms usually take into account the income and cross elasticities of demand for their products when setting their prices.
		Evaluate whether a firm which produces a product that has positive income elasticity of demand and positive cross elasticity of demand should lower the price of the product. [25]
'		Question no.
·	f	I marriel economy is one in which there price mechanism operates
	f	reely and there is little to no government intervention. Resources
	ĺ	are allocated based on supply and demand conditions and
		this is controlled by the inunible the hand as stated by Adam
	(	Smith. On the other hand, a centrally planned economy ruch
	•	as Nach korea has more government intervention and free
		manult forces have terr or an effect in allocating
,		resources. A manuel economy tends to involve greater degrees
		of efficiency as individuals are driven by relf interest
		and utility maximination. This can lead to a more
		efficient allocation of he courses and therefore terr
	SEE	maner failure, havever this is not always the case.
1		In a maket economy, the recourse are allocated by the price mechanism which involve signalling and rationalising. For example, if there is a surge in demand for a
,	Ĭ	The state of the s

\* 0009543277414 \*



Morcover, a mornel economy is the best way to alreade resources because goods and senices tend to be varied and manufo respond to change in consumer preference and so there is greater choice. This can result in greater allocative estimates as consumer satisfaction will be maximised. This contains to a centrally planned economy whenely consumers lack choice and the government decides what goods are produced, how they are produced and for whom. Therefore it could be agreed that there basic economic problem is dealt with more efficiently in a manual economy.

On the other hand, in a manus economy such as Estonia which continues to operate in such a manus, public goods may be underprovided. This is because there will be no fixed incentive to produce such goods due to the free rider problem and the nature of public goods as non-rival and non-excludable. As a

Turn over \_\_





result, ment goods with portise externalities will be undeprouded Such as national defence and law and order. There are may also worky be a lack of public health care sociaty or extrain the poor have by charging high prices. This is with maropoly fine wherely good or senice. Therefore manet econonies are not the best way to allocate terrources, however this doer depend on the type of renounce, paticular, public goods is far from the social optimum of refore organist that a marrel economy ര റ്റ്റ് 2018

DA.

PI



<u>ૣૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢ</u>

is not the best way + autocase resources, Despite this, in the real wand, EVALO marret economy is likely to face some government interestion and EVALO this misallocation of recourses as a returt of pollution and unimonmental degredation may be intervalifed by a tax which Will bring the economy dozer to social aptimum and volve market failure therefore the extent to which a mance ecanony is the best way to allocate resources depend on the event to Which there is government interention or provision, if there is ary at aunthrexample

Frohemor, in a marrel economy there is likely to be man unemployment Heir ma planned economy such as North Korea Wherely the government can allocate jobs. This Suggests that march economies may face greater

inequality. However this is not always the case as the UK is a market gearany with a relatively low gini coefficient of 0.54 suggesting a relatively high level op income equality and a benefit system is in place to improve equality.

In Condusion, it can be argued that a marrel economy is the best way to allocate resources as the price signal act quickly and automatically. Herefore a allowing for greater plexibility in maner forcer. In a manut economy there tendo Le be greater degree or hantiviry behaviour and competition whereby firm and household working maximize which profits and white. However, there may be exploitative manapolies that charge a
END OF QUESTION PAPER See additionalpage



## ADDITIONAL ANSWER SPACE

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

Thus be cleany shown in the margin(s).
3 et of scale. A large airline cours may face coordination
problemas as a result of such a large operation, therefore
increasing costs and increasing espicions. Therefore the
exent to which a manapoly is efficient depends on the exent to which it exploits economies of carle
efficieng.
In cardwian, a manapoly him can be both ephicient or
inefficient. A manapoly is likely to be mare efficient
in the long nun as it inverts its suppernant propits has
innovation and R.P. However, a Manapoly may
expenience a high degree of X-inephicing as a
result of little competitive pressures. They may also
exploit Heir price making power and £ 50 the Competition
and Markets Anthonity may need to step in to have
prices are not too high. Regulation is also required
in natural manapoly manuel such as water and
etecticity which is regulated by OFWAT and OFFEM.
Finally, the case for manapolier being ephcient is
debateable, in reality, different manapelier have
KU KU difform objectives and if it is assumed monopolies
KU KU Who seek to proft maximise who are most likely
to be eg-inesticient or they seek to warginize
SEEN JULY-IN- PCH and supernamal profit.
SEEN 2007 HOLD GIT WAY SIMPLY THE WAY DID IT





\*.0009543277418 \*

4	unfair price were above the mancel equilibrium, therefore	
***********	sugerny varret économies do not auvoir efficient	
******	allocate resources. It is for this relation that a	
***************************************	doe and or one to be in the Rich to it to force to	
EVA	adegree of government interent or i necessary to	
	improve en the speation of a marnet economy, for example with the organization of the the competition	
•••••	for example with 400 organishous & time the camplinos	N
•••••	and Manuels a Authority and the Office of Fair Trade.	
	In this case, a maket withbe ecanomy will be the best way	
*****************	to allocate reserves.	
••••	KU KU	
***************************************		
	, , , , , , , , , , , , , , , , , , ,	
************		
•••••		
************		
***************************************	,	
*************	•	
•••••		
**************		
***************************************		



■© OÇR 2018



· \* 0009543277419 <sup>•</sup>

***************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
,	
,	
***************************************	
·	
•	
***************************************	
	,
,	
	***************************************
***************************************	•••••••••••••••••••••••••••••••••••••••
. ,	
,	
	······································
-	
	4



#### Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the five examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible apportunity.

For queries or further information please contact the Copyright Team, First Floor, 9 Hills Road, Cambridge CB2 1GE.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.

■ © OCR 2018





## Off Page Comments

Item Name	Comment
1d	Analysis of reasons for freezing tuition Reasonable Evaluation Reasonble Knowledge Reasonable
1b	Achieves 1 mark for ability to calculate an average by dividing by 2.2m 1 mark for 98.6% as this represents the deduction of 1.4% from total cost = interest and other overheads = one valid fixed cost identified
4	Strong analysis of allocation of resources and functions of the price mechanism - diagram not needed but does support the analysis Counter arguments are developed well and there is a supported judgement Knowledge and understanding throughout are strong
1e	Ues of MRP theory makes the analysis STRONG Evaluation is GOOD on the second page and there is a judgement at the end which makes it STRONG As analysis and evaluation are both strong, so too in the knowledge and understanding
3	Strong analysis of differrent types of inefficiency supported by accurate diagram Counter arguments are developed well and there is a supported judgement Knowledge and understanding throughout are strong