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 :

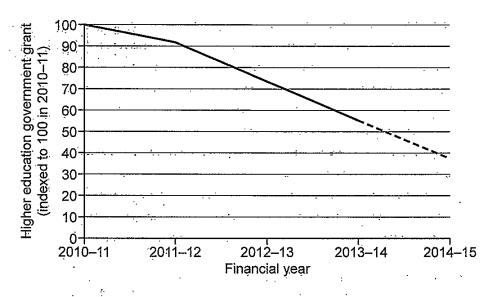
In the table below 'Total Mark' records the mark scored by this candidate. 'Max Mark' records the Maximum Mark available for the question.

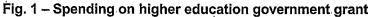
Paper:	H460/01

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.





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
- 20 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 Ulterature, 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.

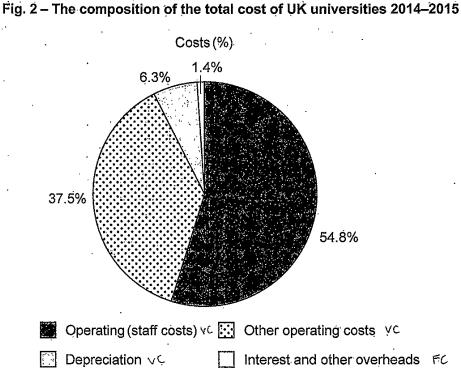
© OCR 2018

5.





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.



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:

0009543277403

Turn over

3



Ŕ

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

. . .

•

~ .

© OCR 2018

 \mathcal{C}



0009543277404 *

Answer all the questions.

(a) Explain, using evidence from the stimulus material, why higher education is a private good 1 Higher education is provided by the free market and so an annual price is charged ose who contine it, in 2017 UKANDEV maxmun price for ,250, Higher education does not shidents was experience a free-rider problem as public goods do and so is a Unite good: [2] (b) Calculate, using information from the stimulus material, the average fixed cost of educating a university student in 2014-2015. -0.4m VC = 98.67. OF 31.2 VC = 30.7 TC=VC+FC TOTAL COSt= £31.2 bn = VC+FC AFC = EC FC = TC - VC FC=31.2-30.7 - 0 £1136 (c) (i) 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 two. It is assumed that testiany education will increase output as havener tog 3 does not support this as income is The the highert counties h Spert th Karea they however they havelowest average income of \$27600. Germany has the lowest rate at 3.5% but the 2nd highest average income of \$42,000. Therefore the relationship between the two Tower average income is negative. Turn over @ OCR 2018

RRRRRR

R

RRR

RRRRRRR

RRRRR

R

R R

RRRR

R R R R R

RRRRR

R R R (ii) Explain, using information in Fig. 3, which country is likely to have experienced the <u>lowest</u> relative <u>increase</u> in <u>occupational mobility</u> over the last thirty to forty years.

6

mare more bet n job ling transferable have increases lowert aguired. arman is likely to have exce encept because their Than education yor people 15 lower, th do not gu thurn P. VO(2) NECEDAM FOR + (30.5°\$f Only a small proportion of the Country alupations 25-54 year olds enverienced this and 26-37. of SS-64 year olds, therefore the plenbility of labour and occupational mobility lover.

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

If the government freeze the trition fee it will remain at \$9250, despite any increases in inplation. This can have positive effects forstudents in the shop run and long run, however the extent to which this is five depends on a number of factor.

annual trition fee, it will incentive freezing Maximin unwepity because the es. Student WIL NOL SIBVULU ITAQI Inil bene the opportunity cost of attending university rden in the long. MIL fall ACL. They WIL feel <u>nun, in 1</u> more 10 parid, job in the long run as anduate

However, it depends on whereather courser expension a surge in demand. If more students are milling to gain a degree in agriguitive or creative ars, they are unlinely

© OCR 2018



to benefit as much as these who gain degrees in engineering or economics as these grenerate higher incomes after graduation. Furthermore, the annual trition see may already bege too high and so there May be no benefits derived from freezing the maximum fee because Students Shill face an unfair price. It is por this reason that the gevenment should consider alternativer such as scrapping the tuition feer altogetter and providing information provision on why university is a beneficial. It can also be argued that a preeze on fees will benefit students already in university, however in the long nun, feer may increase significantly the or more people true Up conger at university. Following an increase in demand, the demand curve mill shift right from D, to Dr. There will be an expansion in upply and a new equilibrium of the will be achieved following an increase M price from P, to that a preeze on fees can increase Ŋ; fees in the long numar demand Qty Q, Qz. increases and the government will have no choice but to increase fees even beyond £9250. This may even be inevitable as the preeze will only last for a temporars period

Price

γPz

P

OCR 2018

of time.



Turn over

8 (e) Evaluate, using evidence from the stimulus material, whether a higher tuition fee should be charged to medical students than to English Literature students. Medical Shiden achieve a higher wage upon tearing. to face Find employment after graduation UNIMAI TV This is because jobs for Company d tota enj: Careers for Madd INNORA! lashiat Englist , and wase P Md woncplace, WORL 01 Sc medicar higher wages and doctors Ω power ſαΛ ÍN WA £ ppace there Waj NN. .I.Gl . From Wz Wj Wj English ents would eve an increase QTYOL W, to Wz Wage Whereas medical Student Wager from MORCAR W3 to W4 because their abour

that trution ĥi bl. debt burden Payment Mll account for a smaller proposion of total On the POM W other hand, iF nition feer for both English literature and medical Strolens literature Stude ΩM , Thelish on the to pay back a percent of total naging income Therefore, them lower te rongidered More fair and equa l (an De. this, there no guarantee that doctors will be particularly in a manappony employer SU ar NHS Q Ch 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 shidents appl completing medical degrees and this creater undication in society because medicine and healthoare is an eccential public good that produces positive externalities A stratage in medical students faill create a fall in the deprived demand for healthcare phrenegene a key merit good. Therefore, thition feer shaud be kept the same. It could even be argued that trition feer for medical Students & shauld be lower because it will encourage mar people to Study medicine, therefore increasing the supply of doctors who provide healthcare which improves the welfare of society. Moreover, high He extent to which higher is thit in feer thousa be charged to medical Students depends on the costs faced by universities. Ar ses stated in line 27, without funding from the government, "universitie" Will struggle to cover their corb," therefore higher blogs may be necessary in doing so. The university can then invest the extra revenue gained from increasing trition feer into improvements in repart facilities and teaching quality. This can decrease long hin costs if the funds are used efficiently In conducion, higher trition feer shall be charged to medical students because they tend have a more wase inelactic rupply of labour and a greater Ferrel of specialist du'ils, concequently they can demand higher wages and repay shident loans parter compared to English [12] literature students who tend to have lower income jobs upon graduating. Higher the Therefore, higher fees increase equits and improve the distribution of income in the long run, havever the universities paper shall utilize the fund from higher fees and invest in roducity costs of so that trific fees do not have to remain high.



Turn over

9

R

R

R

R

R

R

@ OCR 2018

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

© OCR 2018

凝

Question no.

3* Some economists claim that the Royal Mail was more efficient when it was a monopoly.

CMA Evaluate, using an appropriate diagram(s), whether a monopoly will be efficient [25]

YES	NO
Alghanic offent to by leibenttin	Production SAC.
of Economics of Scale Zertenal	X=Inefficience DCD in MAR. CO
Had wed -	

A mongpoly is a market shuch we in which there is one seller of a good or service. They sandly dominate the market with a 25% share and they act as price the markets as they face as celatively inelastic demand curve. They are shan and lay nun profit maximisers and lack productive and allocative efficiency, however they can be efficient in other areas. Monopolicy are also operate into with little to no compelition and so do not face pressures in lowering pricer, as is the are with effer mercut Amendment such as observed and monopolistic competition, therefore the effect to which observed manopolies are efficient appendix on an another such as observed and monopolistic competition, therefore the effect to which observed manopolies are efficient appendix a animor of packet.

In an monopoly, fine pace are able to make supernormal



11 (or abnormal) propit & by setting the price where MR=MC, the propit COSTI maximiling level of output. As a result, they earn Superanal profit deput sham by the shaded area. This creater inefficiencies as profib use are usually distributed to there had in Pm the form of dividends. The diagram also demanstrates Heat a manapoly AR-D fim Such as He Royal Mailin MR Ty the past is economically inefficient. This is because the fin is not operative at the minimum point of it? LRAC curre and so is productively inefficient. Price is also not equal to MC and so the fim Is not allocatively efficient. They are able to charge higher prices as Here is no threat of entry (it is not a contestable marnet) and so protection surplus is conversed into producer surplus. This can also occur through price discrimination, whereby a manapoly charger canaimen baced on Heir Willingner to pay Chirt degree) or Heir relative price elacticity of demand (3rd degree). This con atro be referred to an aptimal pricing and reduces allocative efficing by reducing connouncer suplui, Herefore suggesting that manopolies are inghicient.

CR CR

> On the other hand, the extent to which a manapoly is allocatively efficient depends on how it noise utilises its supernormal profits. It may have philanthropic objectives, as seen with first such as Vigin and Microsoft and ro may distribut profits to wider society. This can be doned in what is knam as comporate pockal responsibility (CSR). A monopoly may use its profits to benegit society, increase its reputation



and create a positive image. Furthermore, the manapoly theory asrumentiat our manapolies profit maximize, havever there are other objectives that they may prioritize such as sales maximization whereby AC=AR or revenue maximization (MR=0). There can increase a manapolies momet share and increase efficiency if such objectives are carried out alongside a lowening op prices. Therefore, the extent to which a manapoly is efficient defends on its objectives.

FUPlermore, in the real word, a manopoly is likely to fing out profit Satisficing behaviour as a result of the principle-agent problem and this can create X-inefficiency. This occurres when actual average costs are higher than potential costs as a result of network organizational stack. This means that a manapoly door not exploit its Jringhuy potential potential for cart savings and so may experience technichal organizational bottlenecks may create canerics among charchedded.

On the other hand, a manapoly may experiency dynamic ethicity. Whereby it improves its coordination and technological production processer, this can be done by inverting in recease and development Which ach as a sume cost. This pynamic ethicity can improve the quality of goods, therefore increasing allocative efficiency and proposed productive ethicitiences in the long num if the fim invols heaving in human capital. Joseph Schumpeter

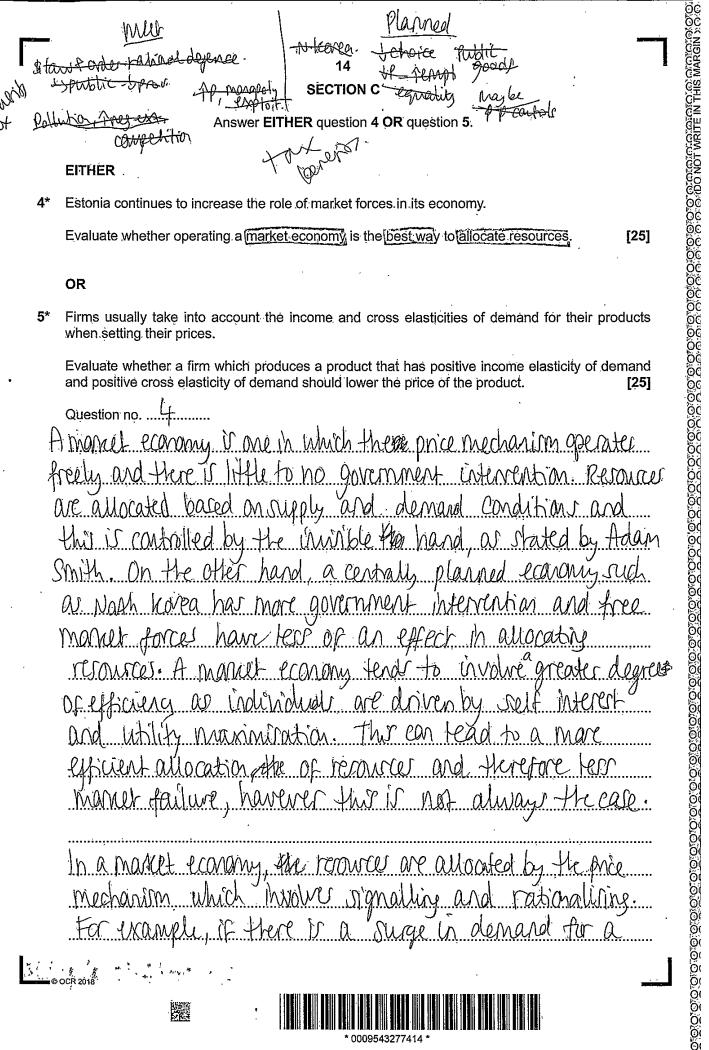
DOCR 2018



agued Hat a preoccupation with shitic efficiency prevents dynamic efficiency in the Longmin, theofore manapolies are the mast efficient market Structures as supernomal profits provide Bunds for improvements.

FUATERMORE HE EXPENT to which a manapoly will be expicited depends on Hetzer of manapoly. If it is a natural manapoly it is highly likely that there will be a greater degree of efficiency. This accor when the only one fim is wable in the manapoly it manapoly it is highly likely that there will wable in the manapoly it is highly likely that there will have a greater degree of efficiency. This accor when the only one fim is wable in the manapoly and the mast efficient number is one for example with railway networks. Natural manapolies have face high fixed corb and lawermarginal coits. Ac, ______ Leac Therefore it URMC is belas its up AC. ______ Leac Therefore it URMC is belas its up AC. ______ Lean In the case of a natural manapoly, grains Qifin QTY monopolies are efficient.

Moreover, the exert 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 Ge.grick-bearing, Financial, technichaland purchasing and ecanomic of scale). External economics of scale instriff tabour a expansions in the industry as a reput of an in create improvements in the industries infrustructure. Here Suppose a manapoly is £ able to buik buy, this will be (RAC dore at a lower cort^{of B}Herejar Economies of sale reducing LIZAC and obtaining Oz ρ, output. This improves productive eghinency. However, if a min-efficien Pz manopoly grows too big they may experience direction see additional page © OCR 2018



15 private sector good such as leinine, the demand curre will shif to the night from & D, to bz and there will be pre an extension alargette supply curve. The original equilibrium Er with quantity Q, and price P. P1 1 will charge to a new equilibrium of Ŷį Ez forlowing an increase in price from Pito B and and increase in quentity Q. Fry a new allocation of resonances, however this may 19 [11] occur automatically is a manuel economy. This suggests that a manuel economy is the best way to allocate resources because the price mechanism adjusts rapidly to essure consume needs are met.

Moreover, a nonnet economy if the bert way to allocate reconscer because good and senicertend to be varied and manuals respond to changer in consumer preferencer and so there is greater choice. This can result in greater allocative efficiency as consumer satisfaction will be maximized. This contrasts to a centrally planned economy whereby contineers lack choice and the government decider what goods are produced, has they are produced and for whom. Therefore it could be argued that there baa's economic problem is dealt with more efficiently in a menut economy.

On the other hand, in a manuel economy such as Estonia which continues to operate in such a manuel, public goods may be underprovided. This is because there will be not fired 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





16 result, menitgoods with poritive externalities will be undeprovided Such as national defence and laward order. There are may also worky be a lack of public healthcare and this can create inequality in pociaty or exprass the poor have fin have the power to pay for h lathcare and private by charging high prices. This is to exploit CONTUMP parialens the case with marapoly fine wherely Here is me seller of a good or service. Therefore manet econories are not the best way to allocate terancer, havever this doer depend on the type of renounce, paticular, public goods Mamet failure through Furthermore, a mance POGNOMIC (*1*), A nerower the as there likely 60 egulation. 9.0vum ins are more likely to poly inefficient production. ort! niques 0.0.0.0.0.0.0 al. a reput of the cost saving incentives. In a manet economy ₽¥ terowner mill be a alloated is creater at Q. P. and 0000 P.1 lass to societ arca. ۱Ŵ **MSB=MPB** lop Q qty fore as cost exceeds marginal as Maryinal (non al is for from the social optimum of regone or geophy that a manuel economy vale COST. and aggr @ 000 8 2019

is not the best way to allocate reconcer, Despite this, in the real word, a manuel economy inlines to face some government interention and so this misallocation of reconces as a reput of pollubris and invironmental degredation may be intervalified by a tax which will bring the economy closer to social aptimum and volve market failure. Therefore the extent to which a manuel economy if the best way to allocate reconcer depend on the event to which there is government intervalition or provision, if there is any at all officers.

Fritemer, in a marrier lecensing there is likely to be man usemployment than the planned economy such as North Karea wherely the government can allocate jobs. This Suggests that marrier economies may face greater inequality. However this is not always the case or the UK is a market economy with a relatively low gini coefficient of 0.34 suggesting a relatively high here op mane equality and a benefits system is h place to improve equality.

In Condurim, it can be agried that a manuel econory is the best way to allocate recorrer as the price signal act quickly and automatically, therefore & allouiz for greater effectibility in maner forcer. In a manuel econory there tende he be greater desires of mentivising behaviour and competition whereby from and havehald working maximize within profits and wility. Haverer, there may be exploitative manapolier their charge a END OF QUESTION PAPER See additional page

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).

B
3 of of scale. A large airline camp ^{oby} may face coordination
problemas as a result of such a large operation, Heryar
increating costs and increasing efficiely. Therefore the
expert to which a manapoly is efficient depends on
the extent to which it exploits economies of carle
ethicieng.
In carchinian a manapoly fim can be both efficient or
inefficient. A manapoly is likely to be mare efficient
in the long mu as it inverts its supproved propits was
innovation and REP. However, a manapoly may
espenience a high degree of X-inefficing as a
reput of little competitive prepares they may also
epploit their price making power and I so the Competition
and Marken Anthonity may need to step in to ensure
prices are not too high. Regulation is also required
in natural manapoly maneks such as water and
etectivity which is regulated by OFWAT and OFGEN.
Finally, the case for manapolies being ephcient is
debateable, in reality, different mangpolier have
alifform objectives and if it is augapoer monopolies
Mo seek to prost maximise who are most likely
debateable, in reality, different manpaier have different objectives and if it is alsapped monopolies Who seek to propit maximise who are most likely to be egg-inefficient or they seek to maximise
JUE-INDER AND STYLEFTIGHTAD DIDN'T.
● OCR 2018



Unfair price well above the manuel equilibrium, therefore anotate recontes. It is for this reason that a terrentia & necessary to degree of government ecarany, op a marnet e <u>Campelihon</u> for example with 410 and Maries & Authority and the Office of Fair Trade. In this case, a manet withbe ecanomy will be the best way to allocate reporter. © OCR 2018

	•••
	•••
	•••
	•••
	,
······	•••
	•••
	•••

Oxford Cambridge and RSA

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 Bookter. 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 opportunity.

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





0009543277420 *