AQA A-LEVEL ECONOMICS · 7136

ECONOMICS



EXAM QUESTION PACK

3.1.8.5 MERIT AND DEMERIT GOODS

SCORE	PERCENTAGE
/422	%

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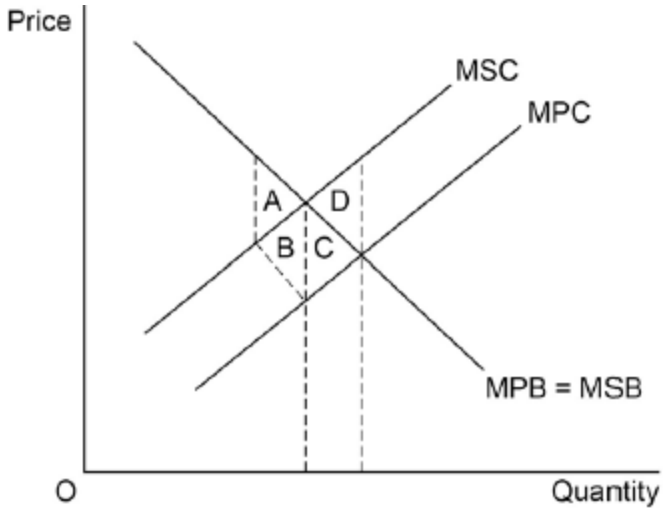
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1. **Extract F** (lines 1–3) states: 'There are aspects of market failure in the social care sector, though some argue that inappropriate government intervention and a lack of funding are the main reasons why the system is failing to deliver high quality care.'

Using the extracts and your knowledge of economics, assess policies that might be used to improve the provision of social care in the UK.

[25 marks]

2. The diagram below shows the marginal private benefit and marginal social benefit (MPB and MSB) curves and marginal private cost and marginal social cost (MPC and MSC) curves for Good X.



Which triangle, **A**, **B**, **C** or **D**, represents the welfare loss if output is at the private optimum rather than the social optimum?

A ⬭

B ⬭

C ⬭

D ⬭

[1 mark]

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3. Government intervention will result in a more efficient allocation of resources if

A it leads to a reduction in the consumption of demerit goods. ⬭

B it leads to a reduction in the subsidies received by firms. ⬭

C it reduces the number of competing firms in an industry. ⬭

D consumers are charged for the provision of public goods. ⬭

[1 mark]

4. **THE EUROPEAN UNION CONTEXT**

Extract E: Housing tenure and externalities

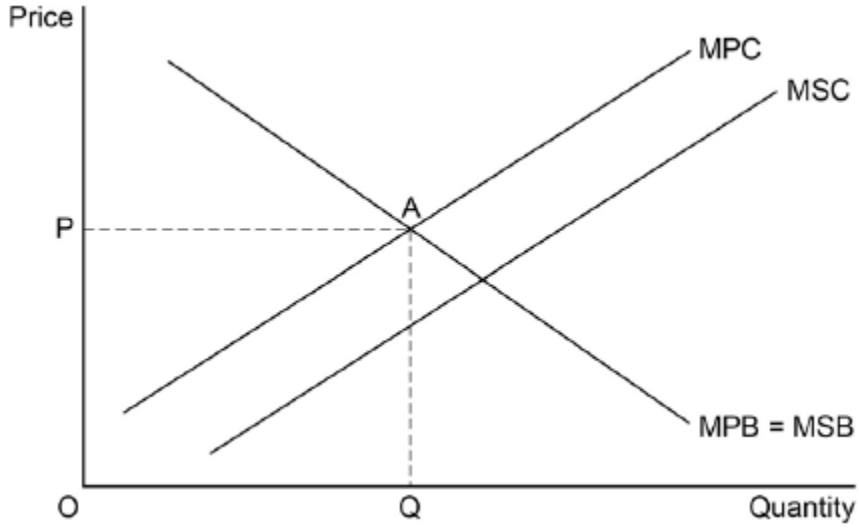
Most Spaniards and Estonians live in flats, while most people in the UK and Ireland live in semi-detached houses. Housing markets are made up of different sectors or 'tenures' which describe the legal basis under which houses are occupied. Most of the population of the EU live in owner-occupied houses. Social housing is built or funded by the public sector and, in the past, the UK has been almost unique in Europe in providing such houses mainly through local councils. In France, this is done by not-for-profit organisations, similar to UK housing associations. About two-thirds of tenants across the EU pay a market price rent, while the rest receive some form of subsidy. In the UK, the concept of social housing has become complicated by the large number of private landlords whose tenants are receiving welfare benefits. While the UK government has moved away from rent controls, it has attempted to influence rents indirectly by capping housing benefits for low income tenants.

While housing has many of the characteristics of a merit good, externalities from housing can be positive or negative. Bad housing is often associated with crime, ill-health and other problems, and the opposite is true of good housing. Tenure can also be linked to externalities, for example, if poorly designed social housing, such as an inner-city block of flats, is compared with high-quality private housing in a prosperous area. Much depends on the quality of the build, the surrounding social conditions and the economic infrastructure.

Source: News reports, 2014

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5. The diagram below shows the marginal private benefit and the marginal social benefit (MPB and MSB) curves and the marginal private cost and marginal social cost (MPC and MSC) curves for good X.



Assuming the free market equilibrium is at point A, what action taken by the government is most likely to lead to output being produced at the socially optimal level?

A Increase in unit taxes on good X ⬭

B Subsidies to the producers of good X ⬭

C Regulation to reduce consumption of good X ⬭

D Issue of permits designed to reduce output of good X ⬭

[1 mark]

6. 'Most consumers know, more or less, when and why they are likely to want to replace a TV set or mobile phone. Nobody really knows in advance when or why they might need to go into hospital for a new knee-cap or hip joint.'

Explain why imperfect information might lead to market failure in the case of merit goods and demerit goods.

[15 marks]

7. It is generally accepted that we need to adopt new ways of charging for the use of our roads. This is partly because of worsening congestion, but is also due to the reduction in revenue generated from taxes on fuels as a result of more fuel-efficient vehicles.

Assess the view that a system of road-pricing is the best way to tackle the problem of worsening traffic congestion in the UK.

[25 marks]

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8. It is generally accepted that we need to adopt new ways of charging for the use of our roads. This is partly because of worsening congestion, but is also due to the reduction in revenue generated from taxes on fuels as a result of more fuel-efficient vehicles.

Explain why, in the absence of government intervention, too many journeys are likely to be made by road and too few by rail.

[15 marks]

9. Traditional economic theory assumes that consumers make rational decisions that maximise their economic welfare, but behavioural economists disagree.

The Government would like to improve the well-being of the population by encouraging people to adopt a healthy diet. Using your knowledge of **both** traditional economic theory **and** behavioural economics, assess alternative policies that the Government might adopt to try to achieve its objective

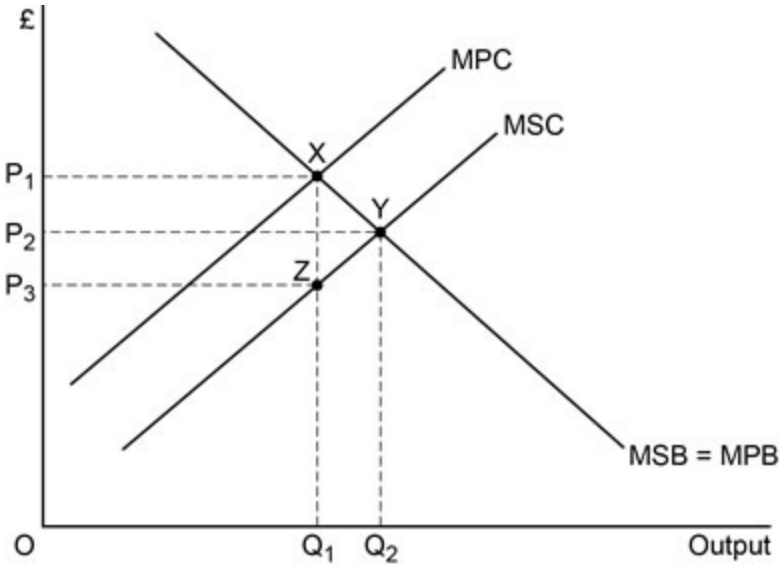
[25 marks]

10. 'Most consumers know, more or less, when and why they are likely to want to replace a TV set or mobile phone. Nobody really knows in advance when or why they might need to go into hospital for a new knee-cap or hip joint.'

Discuss whether economic welfare would necessarily be increased if the provision of merit goods and public goods were always left to governments without ever involving markets.

[25 marks]

11. The diagram below shows the marginal private and social benefit (MPB and MSB) curves and the marginal private and social cost (MPC and MSC) curves in a market where there are positive externalities in production.



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At the free market equilibrium, market failure occurs. Which one of the following is correct?

A As a result of this market failure, consumer surplus is reduced by ZXY ○

B As a result of this market failure, there is a deadweight loss to society of P_3P_1XZ ○

C P_1 minus P_3 is the subsidy per unit that is required to correct the market failure and achieve the social optimum ○

D The diagonal distance XY shows the amount by which marginal private cost exceeds marginal social cost at OQ_2 ○

[1 mark]

12. 'A third runway at Heathrow is essential for the success of the economy of London and the UK.'

'A third runway at Heathrow would be an environmental disaster and cause huge market failure.'

Explain how an investment project, such as airport expansion, can be commercially successful and yet produce market failure.

[15 marks]

13. In 2018, the UK Government will impose a new tax on sugary drinks, aimed at tackling obesity. Behavioural economists believe that taxation alone is unlikely to be very effective in reducing consumption. By 2050, obesity is predicted to affect 60% of adult men, 50% of adult women and 25% of children. It is associated with a range of health problems including type 2 diabetes, cardiovascular disease and cancer.

Evaluate the view that imposing a tax is the most effective government policy for reducing the market failures arising from overconsumption of unhealthy food and drink.

[25 marks]

14. According to Public Health England, poor air quality is the largest environmental risk to public health in the UK. In particular, diesel cars are estimated to be responsible for 40 000 premature deaths each year. In response, the Government announced in 2017 that it would ban the sale of new petrol and diesel cars by 2040.

Assess the view that regulation is a better policy for dealing with the problem of air pollution than the allocation of property rights or taxation.

[25 marks]

15. In 2018, the UK Government will impose a new tax on sugary drinks, aimed at tackling obesity. Behavioural economists believe that taxation alone is unlikely to be very effective in reducing consumption. By 2050, obesity is predicted to affect 60% of adult men, 50% of adult women and 25% of children. It is associated with a range of health problems including type 2 diabetes, cardiovascular disease and cancer.

Explain why, in a free market, sugary drinks may be overconsumed.

[15 marks]

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16. Which one of the following applies to merit goods?

A Their marginal private benefit is greater than their marginal social benefit. ⬭

B They are likely to be provided by the market. ⬭

C They can only be supplied by the government. ⬭

D They have the characteristics of non-excludability and non-rivalry. ⬭

[1 mark]

17. **INVESTIGATION**

Scenario

You are an economist working for the Ministry of Housing, Communities and Local Government (MHCLG).
You have been asked to investigate the state of the UK housing market.
As part of this investigation, you are to provide answers to three questions.

Referring to the **Extracts A**, **B**, **C** and **D**, use them and your knowledge of economics to help you answer this question.

After considering **Extract E**, and the original evidence in Extracts **A**, **B**, **C** and **D**, would you recommend that the Government should increase its spending on housing? Justify your recommendation.

[25 marks]

18. According to Public Health England, poor air quality is the largest environmental risk to public health in the UK. In particular, diesel cars are estimated to be responsible for 40 000 premature deaths each year. In response, the Government announced in 2017 that it would ban the sale of new petrol and diesel cars by 2040.

Explain why the use of petrol and diesel cars may be a source of market failure.

[15 marks]

19. In December 2018, the Competition and Markets Authority (CMA) announced a range of policies to prevent firms charging existing customers more than new customers. Firms supplying financial services, mobile phones and broadband are no longer allowed to discriminate against loyal customers renewing their contracts.

Explain why imperfect information can lead to market failure.

[15 marks]

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20. Which one of the following government policies is most likely to reduce market failure and to improve the allocation of resources?

A A higher rate of tax on all firms earning profit ⬭

B A minimum price for demerit goods above their free market price ⬭

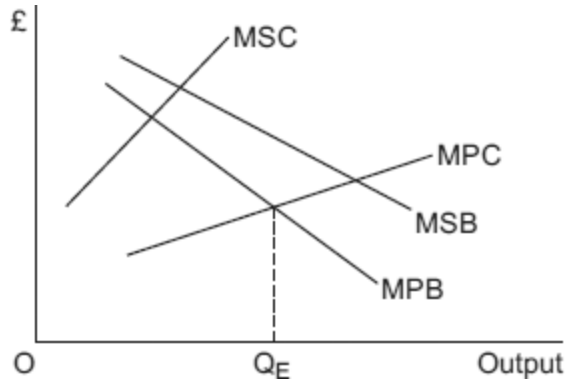
C Free market pricing for the provision of public goods ⬭

D Subsidies paid to all loss-making firms to maintain full employment ⬭

[1 mark]

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1. The diagram below shows the marginal private and social benefit (MPB and MSB) curves and the marginal private and social cost (MPC and MSC) curves for a good.



Which one of the following combinations of price and output, **A**, **B**, **C** or **D**, will improve the allocation of resources compared with the market outcome at Q_E?

	Price	**Output**	
A	Lower	Lower	⬭
B	Lower	Higher	⬭
C	Higher	Lower	⬭
D	Higher	Higher	⬭

[1 mark]

2. 'The UK's strong reliance on landfill indicates the existence of widespread environmental market failure' (**The Global Context Extract B**, lines 16 −17).

Using the data and your economic knowledge, evaluate alternative methods of correcting market failure arising from waste disposal.

[25 marks]

3. Explain the term 'public ownership' (**The European Union Context Extract D**, line 2) **and** analyse **two** economic reasons that could be used to support public ownership of industries such as airlines.

[9 marks]

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4. The table below indicates the private and external costs and benefits resulting from building a coal-burning power station.

	£ million
Private benefit	180
Private cost	190
External benefit	110
External cost	140

The social cost **minus** the social benefit equals

A £120 million. ⬭

B £40 million. ⬭

C £30 million. ⬭

D £10 million. ⬭

[1 mark]

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5. **THE GLOBAL CONTEXT**

Extract B: The recycling market

Scrap metal dealers are once again touring housing estates in their pick-up trucks obtaining steel and other metals from householders. Increased demand for steel and other metals on world markets has led to a change in the fortunes of these dealers, who are price takers.

Recycling has become a global activity. In 2009, with gold selling internationally at well over $1000 an ounce, there were TV adverts from companies wanting to buy unwanted jewellery. A mobile phone also contains tiny traces of precious metals which can be extracted profitably from the millions of phones discarded each year. This is done at large processing centres, usually near sea ports, and much of the recovered material is exported to factories in China. The Olympic stadium in Beijing, China, was built almost entirely using recycled steel.

Germans, Scandinavians and Canadians are used to sorting their rubbish into different coloured bins. But instead of matching the recycling rates achieved in some countries, the UK still dumps many potentially useful materials. These include plastics, glass, paper and metals, which are buried in landfill sites partly because there are insufficient market incentives for recycling. The UK's strong reliance on landfill indicates the existence of widespread environmental market failure. Landfill creates greenhouse gases, threatens to pollute water sources and wastes scarce resources.

Some critics suggest that it would be better for the UK to aim at waste reduction, eliminating unnecessary packaging and other 'bads' at the production and retail stages. The UK pressure group *Waste Watch* also suggests more reuse, for example encouraging people to buy second-hand clothes from charity shops. However, other methods, such as returnable milk bottles, are in sharp decline.

There are now landfill taxes and regulations which provide incentives for recycling. Households could face the prospect of fines for breaking 'bin-bag rules'. However, this may lead to unintended consequences such as illegal dumping of waste. *Waste Watch* wants national targets and other policies to promote composting because, by weight, garden and kitchen waste make up the majority of material sent to landfill. *Waste Watch* also suggests increasing the landfill tax each year and extending it to cover incineration and other waste-disposal methods.

Recovery is a further option. In less developed countries, some homeless people live on city rubbish dumps making a living from what they can find and sell. In the UK, market conditions are such that the metal in a 2p coin is now actually worth 3p. Some experts even predict that within ten years it will be economic to excavate landfill sites to 'mine' the tin cans and other scrap materials that have been buried there.

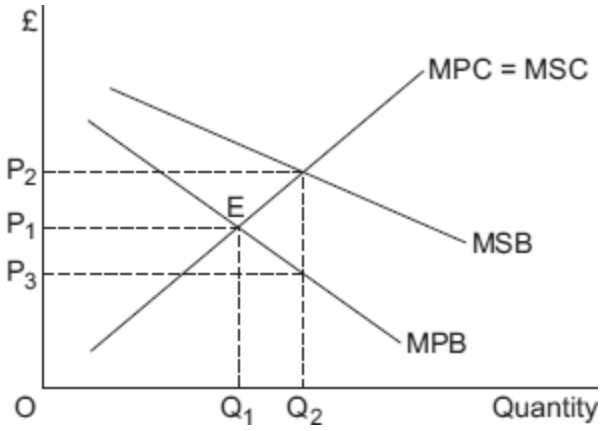
Source: news reports, 2009−10

6. Discuss whether markets alone can be relied upon to reduce the problems of environmental pollution.

[25 marks]

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7. The diagram below shows the marginal private and social benefit (MPB and MSB) curves and the marginal private and social cost (MPC and MSC) curves for a merit good.



The initial market equilibrium is at point E. To avoid a misallocation of resources in the market, the government could

A introduce a subsidy of P_3P_2 per unit produced. ⬭

B set a maximum price of P_1 per unit sold. ⬭

C raise price to P_2 per unit sold. ⬭

D set a minimum price of P_1 per unit sold. ⬭

[1 mark]

8. Explain what is meant by 'property rights' (**The Global Context Extract B**, line 20) **and** analyse how an absence of property rights can worsen the environmental market failures of **both** pollution **and** the rapid depletion of natural resources.

[9 marks]

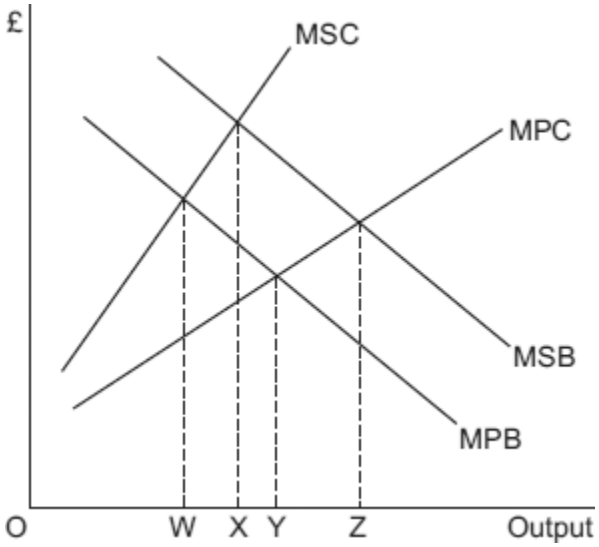
9. 'In future, many young British people will have to adopt the German tradition of renting rather than buying, unless they eventually inherit a house from their parents. This has major implications for many aspects of the economy, including the mobility of labour and the distribution of wealth.' (**The European Union Context Extract F**, lines 17−20)

Should government intervene in the UK housing market, for example using subsidies, or leave the provision of housing to market forces? Using the data and your knowledge of economics, justify your answer.

[25 marks]

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10. The diagram below shows the marginal private cost and marginal social cost (MPC and MSC) and the marginal private benefit and marginal social benefit (MPB and MSB) of producing a good.



The optimal output of the good for society would be

A OW. ⬭

B OX. ⬭

C OY. ⬭

D OZ. ⬭

[1 mark]

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11. THE GLOBAL CONTEXT

Extract B: Climate change

In 2004, Russia signed up to the Kyoto Protocol, an international agreement on policies to manage climate change. This committed Russia to a United Nations programme to reduce emissions of greenhouse gases. In 2010, Russia's emissions were as low as their 1990 levels, but this was less to do with environmental policy and more to do with the collapse of heavy industry following the fall of the Soviet Union. A large contribution towards the UK's Kyoto targets also came from deindustrialisation. However, China, like the USA, did not sign up to the Kyoto Protocol.

International action to control carbon emissions is necessary. One policy is known as 'carbon trading'. Countries agree overall emissions limits and try to create an international market for permits to pollute. The idea is to put a money value on emissions and, over time, to create incentives for businesses to invest in less-polluting technology. As well as the large compulsory 'compliance' market for carbon credits, there is also a smaller voluntary market for 'carbon offsets'.

For example, an organisation can be paid to plant trees to allegedly offset the damage that an airline journey does to the ozone layer. Some companies are using these offsets, together with greater energy efficiency and reduced polluting activities, to claim to be 'carbon neutral'. Some environmentalists are suspicious of offset schemes and claim, for instance, that offset schemes have hidden environmental costs.

Some economists argue that the pollution and depletion of communal resources such as clean air, water reserves and fish stocks are made worse by a lack of property rights. Critics say that carbon trading amounts to 'privatisation of the atmosphere', with property rights in this vast new market being grabbed by speculators or by those who already pollute the most. They also claim that activities such as buying credits from Russia are an 'accounting fraud' because they do not necessarily arise from energy efficiency but from the collapse of heavy industry. There is concern that carbon trading is a further blow to manufacturing and that service industries are treated more leniently. If the UK relies on manufactured imports, it can be argued that factories located in China are actually creating UK emissions.

Some major UK businesses appear happier with permit trading than with alternative policies such as quotas on emissions or the taxation of fuel. There is a suspicion that carbon trading might mislead the public into believing that pollution from airlines and other industries is no longer damaging. Governments are accused of being overgenerous in allotting permits to industries that they see as nationally important, such as car manufacturing and electricity generation. While the UK might reduce its domestic demand for carbon, it continues to contribute to the world supply of fossil fuels through activities such as oil prospecting and opencast mining. Russia, China and less-developed countries with coal reserves show few signs of reducing their output of this form of carbon.

Source: news reports, 2010

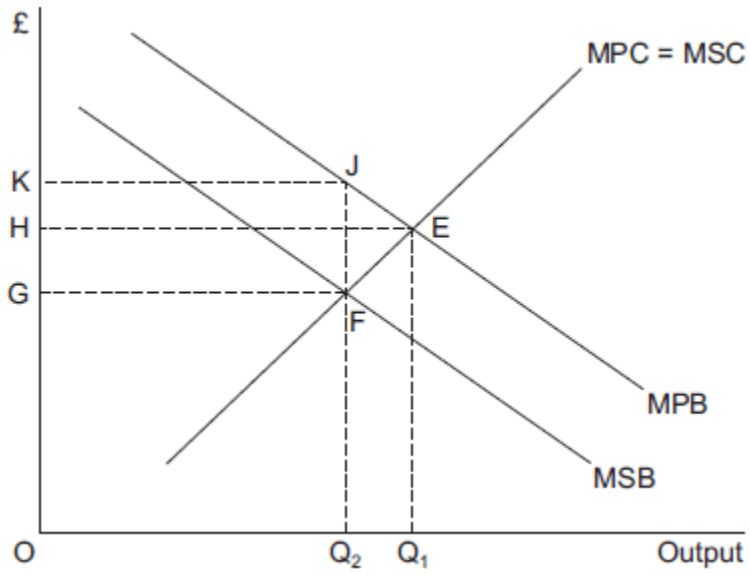
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12. In August 2011, the UK Secretary of State for Culture said that while there were many local television stations broadcasting in the USA, they did not exist in the UK due to 'market failure'. He proposed a subsidy of £40m from public funds to help create stations which would then be financed by advertising.

Evaluate the view that attempts by governments to eliminate market failure by intervening in markets for public goods and merit goods will inevitably lead to government failure.

[25 marks]

13. The diagram below shows the marginal private benefit and marginal social benefit (MPB and MSB) curves and the marginal private cost and marginal social cost (MPC and MSC) curves for Good X.



To reduce the market equilibrium output from Q_1 to Q_2, the government could

A introduce a subsidy of GH. ⬭

B set a minimum price of OG. ⬭

C introduce a per unit tax of FJ. ⬭

D set a maximum price of OH. ⬭

[1 mark]

14. Distinguish between price elasticity of demand and income elasticity of demand, **and** analyse why, when people have medical insurance, the price elasticity of demand for medical treatment might be 'very low' while the income elasticity of demand is 'likely to be high' (**The European Union Context Extract E**, lines 22 to 24).

[9 marks]

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15.

THE EUROPEAN UNION CONTEXT

Extract E: The price of health

The European Health Insurance Card (EHIC) is issued free to EU citizens via national governments. It allows anyone entitled to state health care in their home country to receive basic medical treatment in another member state for free or at a reduced cost. While there is no charge for the EHIC, insurance-based health care systems generally involve the purchase of a policy from a company which then pays for treatment for people whose medical conditions are covered.

The UK's National Health Service (NHS) is predominantly in the public sector and is mostly paid for out of taxation. Treatment is 'universal', available to all UK citizens, and usually to visitors as well. While there are some treatments for which charges might be made, for example, for some dental work and spectacles, a guiding principle of the founders of the NHS was that treatment should be based on 'need' rather than 'ability to pay', and provided 'free at the point of use'. In the UK there is also a private sector consisting of hospitals and other facilities. They mostly work with commercial health insurance companies, but they can undertake some work on contract for the NHS.

In Germany, private health care is used approximately twice as much by patients as it is in the UK, but this does not necessarily mean that patients pay directly for their treatment. Roughly one-third of German hospitals are owned by the state, another third are not-for-profit organisations and the remaining third are in the private sector. German citizens can use any hospital in the system.

The founders of the NHS thought that its costs would fall as living standards rose and the population became healthier. However, when the state or an insurance company acts between the patient and the health provider, the patient's price elasticity of demand for medical treatment is likely to be very low, while income elasticity of demand is likely to be high. Costs have increased due to these unusual elasticities, together with new drugs, more sophisticated medical technology, a wider range of treatments, more complex procedures and increased life expectancy.

16.

Explain what is meant by 'market failure' (**The Global Context Extract C**, line 13) **and** analyse **two** reasons why markets might fail to provide adequate pensions.

[9 marks]

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17. The table below shows the marginal private and external benefits and the marginal private and external costs of a product at the free market equilibrium level of output.

	£
Marginal private benefit	12
Marginal external benefit	9
Marginal private cost	12
Marginal external cost	0

Government intervention in this market could improve the allocation of resources because the product is most likely to be

A a public good. ⬭

B a demerit good. ⬭

C an inferior good. ⬭

D a merit good. ⬭

[1 mark]

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18.

THE GLOBAL CONTEXT

Extract C: Pensions and poverty

A major factor in tackling global poverty is the provision of adequate pensions. According to the think tank, Pensionwatch, four out of five older people around the world have no access to a pension, with many millions living in poverty or working well into their old age. Around 80 countries have some form of state pension which gives a basic income in old age.

An important question is whether individuals should take responsibility for their old age by choosing to contribute to a scheme provided by the state, or an employer, or via the insurance industry. Only a few wealthier countries also have a basic 'universal' state pension, financed from general taxation rather than contributions. These have a cost to the taxpayer but they reduce the social costs of old age poverty.

Statisticians can make long-term predictions of population changes and yet many private and public sector pension schemes are in crisis as countries are faced with ageing populations and rising levels of national debt. This can be seen as government failure, caused by poor forward planning. There has also been some market failure. For instance, due to the selling of inappropriate insurance-based private pension schemes, and a significant fall in the value of pensions being provided by even the better schemes, many consumers have lost trust in the private sector pensions industry.

It could be that many people are simply too poor to be able to afford to save, or it might be that people often prefer current consumption over future consumption. This form of market failure could be tackled by the government imposing a high rate of compulsory pension saving, as in Chile and Singapore. There was a small step in this direction in the UK in 2012 when the government launched 'auto-enrolment', an occupational pension scheme pioneered in Australia and New Zealand where employees are automatically included unless they opt out. While rich countries argue over who should pay for pensions, and by what methods, in poor countries, where pensions are needed the most, they are likely not to exist at all.

Sources: news reports, government statistics, 2013

19.

Explain what is meant by the term 'externalities' (**The European Union Context Extract E**, line 12) **and** analyse how housing can create **both** positive **and** negative externalities.

[9 marks]

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20. THE EUROPEAN UNION CONTEXT

Extract F: Housing and inequality

The EU Commission has said: 'Decent housing at an affordable price in a safe environment is a fundamental need and right. Ensuring this need is met, which is likely to alleviate poverty and social exclusion, is still a significant challenge in a number of European countries.' Housing inequality can result in part from income inequality and can, in turn, help cause wealth inequality. Most houses are bought using mortgages which are issued by banks and building societies on the basis of income. The UK's 'Right to Buy' policy, dating from the 1980s, makes a one-off redistribution of wealth from the state to low income families when tenants buy their council houses at a subsidised price. Regional and international differences enable some house owners to convert their housing assets into other forms of wealth. For example, someone who sells a former council house they have owned for 30 years in south-east England might release enough profit to be able to purchase a similar house in north-west England, or even two houses in Bulgaria, while still having cash left over.

In most EU countries, 'austerity' pressures on public finances can be expected to cause a further withdrawal by government from a direct role in housing. The financial crash of 2007 was made worse in Europe by excessive property speculation, particularly in the UK, Ireland and Spain. In future, many young British people will have to adopt the German tradition of renting rather than buying, unless they eventually inherit a house from their parents. This has major implications for many aspects of the economy, including the mobility of labour and the distribution of wealth. Moreover, in 2013, a government 'Help to Buy' scheme, intended to assist first-time buyers with their deposits, has also subsidised would-be landlords buying property to rent out. Yet the UK remains short of social housing and affordable private housing.

Source: News reports, 2014

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