

Coimisiún na Scrúduithe Stáit State Examinations Commission

Leaving Certificate 2020

Marking Scheme

Economics

Higher Level

Note to teachers and students on the use of published marking schemes

Marking schemes published by the State Examinations Commission are not intended to be standalone documents. They are an essential resource for examiners who receive training in the correct interpretation and application of the scheme. This training involves, among other things, marking samples of student work and discussing the marks awarded, so as to clarify the correct application of the scheme. The work of examiners is subsequently monitored by Advising Examiners to ensure consistent and accurate application of the marking scheme. This process is overseen by the Chief Examiner, usually assisted by a Chief Advising Examiner. The Chief Examiner is the final authority regarding whether or not the marking scheme has been correctly applied to any piece of candidate work.

Marking schemes are working documents. While a draft marking scheme is prepared in advance of the examination, the scheme is not finalised until examiners have applied it to candidates' work and the feedback from all examiners has been collated and considered in light of the full range of responses of candidates, the overall level of difficulty of the examination and the need to maintain consistency in standards from year to year. This published document contains the finalised scheme, as it was applied to all candidates' work.

In the case of marking schemes that include model solutions or answers, it should be noted that these are not intended to be exhaustive. Variations and alternatives may also be acceptable. Examiners must consider all answers on their merits, and will have consulted with their Advising Examiners when in doubt.

Future Marking Schemes

Assumptions about future marking schemes on the basis of past schemes should be avoided. While the underlying assessment principles remain the same, the details of the marking of a particular type of question may change in the context of the contribution of that question to the overall examination in a given year. The Chief Examiner in any given year has the responsibility to determine how best to ensure the fair and accurate assessment of candidates' work and to ensure consistency in the standard of the assessment from year to year. Accordingly, aspects of the structure, detail and application of the marking scheme for a particular examination are subject to change from one year to the next without notice.

Marking Scheme and Support Notes

In considering the marking scheme and the support notes the following points should be noted:

- The support notes presented are neither exclusive nor complete and further relevant points of information presented by candidates are rewarded on their merits.
- They are not model answers but rather a sample of possible responses.
- The support notes in many cases may contain key phrases which must appear in the candidate's answer in order to merit the assigned marks.
- The detail required in any answer is determined by the context and the manner in which the question is asked and by the number of marks assigned to the answer in the examination paper. Requirements may therefore vary from year to year.
- Words, expressions or phrases must be correctly used in context and not contradicted, and where there is evidence of incorrect use or contradictions the marks may not be awarded.
- Where a candidate provides more valid points than are required in a question, the lowest scoring
 excess points are discounted by placing square brackets around the excess marks awarded. These
 excess marks are not included in the total mark for the question, either within the script or on the
 question grid on the cover, and nor are they included in the cumulative total.

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Summary of Mark Allocations

SECTION A (100 marks)

Question	Marks
1	1 st @ 10
	2 nd @ 6
2	1 @ 8 and 2 @ 4
3	(a) 4 + 4
	(b) 8
4	(i) 8
	(ii) 4 + 4
5	(a) 8
	(b) 2 @ 4
6	(i) 9
	(ii) 2 + 6
7	1 @ 9 and 2 @ 4
8	1 @ 9 and 2 @ 4
9	(i) 3 @ 3 (ii) 3 @ 1 (iii) 5

Section B (300 marks)

	Las		
1 (a)	(i) 9	5 (a)	(i) 9
	(ii) 4		(ii) 4@4
	(iii) 4	5 (b)	(i) 18
	(iv) 8		(ii) 6
1 (b)	(i) 5 + 5		(iii) 6
	(ii) 3 @ 5	5 (c)	(i) 7
1 (c)	(i) 7		(ii) 7
	(ii) 3 @ 6		(iii) 6
2 (a)	(i) 5	6 (a)	(i) 2@6
	(ii) 3@5		(ii) 6
2 (b)	(i) 9 + 9		(iii) 3 @ 4
	(ii) 6 + 6	6 (b)	(i) 13: 7 + 6
2 (c)	(i) 6		(ii) 3 @ 4
	(ii) 11	6 (c)	(i) 2@5
	(iii) 2@4		(ii) 2@5
3 (a)	(i) 8	7 (a)	(i) 7
	(ii) 3@6		(ii) 3 @ 6
3 (b)	4 @ 6	7 (b)	(i) 2 @ 4
3 (c)	1 st : 8		(ii) 4 + 4 + 4
	2 nd :7		(iii) 5 + 5
	2 x 5	7 (c)	(i) 8
			(ii) 3 @ 4
4 (a)	(i) 5	8 (a)	3@7
	(ii) 3@5	8 (b)	6@5
4 (b)	(i) 10	8 (c)	(i) 6
	(ii) 10 + 5		(ii) 3 + 3
4 (c)	(i) 10		(iii) 3 @ 4
	(ii) 3@4		
	(iii) 2@4		

SECTION A (100 marks)

Q	Possible responses	Marks
1.	A fall in the price of a consumer product has both a <u>substitution effect</u> and an <u>income</u> <u>effect</u> . Explain each of the underlined terms.	
	Substitution effect : consumers will demand more of the relatively cheaper good, as they switch their consumption away from relatively more expensive substitute goods – due to increased marginal utility for the relatively cheaper good.	1 st @ 10 2 nd @ 6
	Income effect : consumers experience an increase in their real income/purchasing power as they can purchase the same quantity of the good using less income. With increased real income consumers will purchase more of all normal goods (and less of inferior goods, including giffen goods).	_
2.	Citizens in some Less Developed Countries may experience social costs when these countries pursue <u>economic development</u> . Explain the underlined term and outline two possible social costs which these citizens may experience.	
	Economic development refers to an increase in a country's GDP per capita / level of income / standard of living / output following a fundamental change to the structure of society e.g. improvements in education, healthcare, infrastructure etc.	8
	Possible social costs:	2 @ 4
	Damage to environment: increasing economic development may lead to increased pollution; disfigurement of the landscape; large scale urban sprawl. The loss of the forests in Brazil is a result of the desire for economic development. Increased carbon emissions.	
	Population movement: development may results in the large scale movement of people from rural to urban areas with the possible creation of shanty towns / ghettoes and consequent social problems.	
	Loss of traditional cultural values: with improved mass communication / transport systems there may be a risk to those values which are deemed important as a society / those values which were once considered traditional may be lost. A rural / urban divide may develop.	
	Quality of life issues : development may result in an increase in income but the cost may include increased travelling times to work; longer working hours; separation of families etc.	

Q	Possible responses	Marks				
3.	Up to 800 million global workers will lose their jobs by 2030 and be replaced by robotic					
	automation. (Source: BBC.com)					
	(a) Name the type of unemployment these workers will experience. Explain your answer.					
	Type: Structural / Technological Unemployment	4				
	Explanation:	4				
	Is a form of unemployment caused by a mismatch between the skills that workers in the	•				
	economy can offer, and the skills demanded of workers by employers. Technological unemployment may be caused by new technology and innovation / people					
	lose jobs due to advances in machinery / the introduction of labour saving devices.					
	(b) Outline one policy response that the Irish government could take to reduce this type					
	of unemployment in Ireland.	8				
	Government policy:	(4+4)				
	The government must provide retraining schemes for these unemployed workers so					
	they can gain skills which are currently in demand.					
	 The government could also provide subsidies to firms that provide training to displaced workers. 					
	 The government could provide relocation grants to those who are structurally 					
	unemployed so they can relocate to where their skills are still demanded.					
	The European Globalisation Adjustment Fund is one of the ways the EU is helping					
	 to tackle unemployment. The governments' springboard+ upskilling initiative in higher education offers free 					
	courses at certificate, degree and masters level leading to qualifications in areas					
	where there are employment opportunities in the economy.					
4.	(i) Complete the diagram below by labelling the initial and new equilibrium price and quantities.					
	Price S1					
	\longrightarrow S2					
	E_1 S_2					
	P_1 E_2					
	P_2 $$	8				
	D1					
	Q1 Q2 Quantity					
	(ii) Indicate by means of a tick (✓) which of the following statements would cause the					
	equilibrium to shift from E ₁ to E ₂ ? Tick one option only and explain your answer.					
	(a) Irish farmers' growing fears about Brexit.					
	(b) An increase in a subsidy from the Irish government for beef farmers. ✓	4				
	(c) An increase in the number of vegetarian consumers in Ireland.					
	Explanation : An increase is a subsidy for beef farmers may help them to reduce costs and	4				
	so entice farmers to produce more beef, shifting supply to the right from S_1 to S_2 .	-T				

Q	Possible responses	Marks
5.	Permanent Trustee Savings Bank (PTSB) plans to close about one fifth of its 77 branches in Ireland. (Source: Irish Times, October 2019)	
	(a) Outline one possible reason for the closure of these PTSB branches.	8
	Decrease costs PTSB wants to reduce its operational costs and closing branches will help reduce costs / maintain (increase) profits.	
	Increase in the use of online / mobile banking / services available online: as the number of services available online has increased there has been less need for footfall in physical banks. / As bank customers become more accustomed to using technology there is less need for physical financial institutions.	
	Advances in technology: the use of smartphones and tablet devices means that consumers no longer have a need for 'counter' services and can carry out all major transactions "on-the-go".	
	Offset reduction in income to the bank: the banking sector seeks to offset the impact on their income of very low central bank and market interest rates and muted demand for loans.	
	(b) Outline two economic effects of these closures on the Irish economy.	2 x 4
	Rise in unemployment in the banking sector: as the number of bank branches reduces, the number of employees required will be reduced. The reduced demand for banking staff will lead to increased unemployment and increased government spending on unemployment benefit. Some employees may be offered jobs in a new location resulting in increased costs / inconvenience in getting to work.	
	Loss of banking services to the local community: banking will become a more difficult/ less appealing process for people who do not have transport to bank branches which are located further away. Those customers who are averse to the use of technology will find banking a more difficult/ less appealing process.	
	Fall in demand for other goods and services : with reduced accessibility to financial institutions there may be less borrowing and thus reduced demand for goods and services. Less people may shop / do business in the locality and this can reduce economic activity in the town.	

Q	Possible responses	Marks
6.	John Maynard Keynes supported the use of fiscal policy by government in an economy.	
	(i) Define the term fiscal policy:	9
	Fiscal policy refers to those actions taken by the government which influence the size, timing and magnitude of government spending and taxation. Is any change in government spending and taxation that is designed to change overall spending in an economy / the use of government spending and taxation to influence economic growth.	
	 (ii) Do you agree with Keynes support of government intervention in an economy? Yes / No. Place a circle around your choice and outline two reasons for your answer. 	2
	Yes.	2 x 3
	Achieve sustainable economic growth : the best way for a country to achieve sustainable economic growth and avoid large booms followed by prolonged recessions is through government intervention in the economy to either dampen down growth in booms or encourage growth in recessions.	
	Help create employment : intervention by the government helps foster employment creation directly by the state or by aiding enterprise through the operation of incentives.	
	Redistribution of wealth : government can raise taxation and use this revenue to provide a basic incomes to those who may need it.	
	Provision of essential services: government can raise taxation and use this revenue to provide essential services for citizens of the country.	
	Protection of consumers : legislation and regulation may help consumers from exploitation by firms / prevent the growth of private monopolies.	
	No.	
	Anti laissez faire: laissez faire policy dictates that the economy will gravitate towards the natural unemployment level based upon the capacity of the economy and the demand for and supply of goods and services in the economy. Government intervention is an unnecessary approach to economic management.	
	Funding by borrowing / increased taxation : government involvement may mean additional funding and / or increased taxation which will be borne by the taxpayer.	
	Costly / inefficient state services : the services provided may be at higher prices due to lack of competition in the market and /or may be inefficient.	
	Discourage private enterprise / stifle economic growth : costs for business may increase due to increased taxes and /or increased regulation. This could have the effect of reducing economic activity within the state.	

Q	Possible responses	Marks
7.	The continuing rise of the 'gig economy' has been phenomenal. However, some workers seek an increase in regulation associated with the 'gig economy' and zero-hour contracts. (Note : A gig economy is an economy where firms tend to hire independent workers and freelancers on a short term / payment-by-task basis e.g. Deliveroo riders, instead of full-time employees)	
	(a) Outline two arguments in favour of increased regulation of the 'gig economy'.	
	Protection of employee rights: employees in the past may have been exploited through zero-hour contracts where they must always be available for work but are not guaranteed any work and consequently are only paid for hours worked.	
	Certainty to the employee's standard of living : if regulated then hours of work and pay will be guaranteed and this will help employee improve their standard of living; be available for another part-time job; have a more secure source of income and be able improve planning for their future.	
	Quality of service : regulation may ensure that some services are delivered in a safe and secure way for both employees and consumers e.g. taxi services.	
	Prevent the growth of the shadow economy : by regulating the gig economy it may prevent workers being paid on a cash only basis and this may benefit all citizens.	1 st x 9 & 2 x 4
	(b) Outline one argument against increased regulation of the 'gig economy'.	
	Disincentive to work : the fact that employees can work under such flexible conditions / contracts is what may make this job appealing to employees. Increased regulation may act as a disincentive to some people taking jobs in some sectors.	
	Cost increases : if employees are offered more rigid contracts it may mean that they being paid to work even though demand is low. This will increase the cost of production for the firm and could lead to a reduction in profits.	
	Reduced flexibility for employees / employers : increased regulation may mean that both employees and employers face reduced flexibility and this may not suit either resulting in a loss / reduction in the provision of some services.	

Q	Possible responses	Marks
8.	Some citizens are concerned with the decline in economic activity in some towns and rural areas in Ireland.	
	(a) Explain two economic effects of this decline in economic activity on the Irish economy.	
	Regional variations in employment levels : with decreased employment opportunities in certain regions of the country it may lead to increased unemployment within specific regions of the country and with most employment taking place in large urban areas it may mean that the economy is overly dependent upon certain sectors of the economy.	
	Falling population in some areas/overcrowding in others: the lack of jobs and resources in certain areas of the country may force people to look for employment in the already overcrowded parts of Ireland. Younger people may emigrate from the locality.	
	Pressure on Irish transport networks : people who remain in less developed regions but seek employment in developed regions will contribute to pressure on Irish transport networks. They may also contribute to the trend of urban sprawl outside of large cities and overcapacity commuter belt.	
	Under-utilisation of local infrastructure / decline in investment / loss of local services: if there is a decline in economic activity, local infrastructure will not be used as intensively which may lead to deterioration and/or no incentive to invest further e.g. roads; lighting etc. The local school may not be viable and children may then have to switch to alternative schools. A decline in economic activity means there will be less retailers /service providers.	1 st x 9
	(b) Outline one measure which the government could take to address this economic decline.	2 x 4
	Business incentives to locate in certain regions / tax breaks / FDI : if the government or their agencies were to offer incentives to businesses such as grants, subsidies and taxbreaks to locate in certain regions in Ireland this may be the spur needed to do so. Thus, helping to alleviate economic decline and may encourage investment by foreign and indigenous firms.	
	Improve / maintain the infrastructure: improve local roads to facilitate access. If high speed broadband is made available this will encourage the growth of businesses in the area. Planning for housing could be restricted to the town centre to utilise the existing services.	
	Provide grants for local communities to develop community enterprises: community centres may provide a focal point for a community and might foster community spirit which will promote co-operation; enterprise and social activities. Grants for tourist related ventures might be provided.	
	Improve / maintain local services: Ensure that the local post office; garda station and primary school remain open and this will ensure that these vital services are available locally and thus encourage people to live there.	

Q			Possible re	sponses	Marks
9.	Th (i)	Write in for each	below represents the long-run equal full the label (not abbreviation) of the lines numbered 1 to 3. answer box provided.	Price P_1 P_2 P_3 P_4 P_4 P_4 P_4 P_5 P_6 P_7	
		1	Marginal Cost	\	Labels 3 x 3
		2	Demand/ Average Revenue	E	
		3	Marginal Revenue	D=AR	
	(ii)		n the diagram the equilibrium poin y produced (Q1) by this firm.	Q ₁ Quantity t (E) ; the price charged (P₁) and the	Diag: P ₁ = 1 Q ₁ = 1 E = 1
	(iii) With ref	ference to the diagram explain the	term price rigidity .	5
	th		orful of the likely reaction of its con	fact that price tend not to change from P_1 as appetitors / it would lead to a decrease in total	

SECTION B (300 Marks)

Q1. Utility, alcohol consumption and investment in railways

	Possible responses					Max Mark		
(a)	(i) Explain the Law of Diminishing Marginal Utility: The law of diminishing marginal utility states that as an increasing amount of a good is consumed a point will be reached eventually where the addition to total utility (marginal utility) will begin to decline.					9		
	(ii)	Calculate the marginal utility at A, B, G	C and D					
		No. of Units Consumed	1	2	3	4	5	
		Total Utility in Units/Utils	10	25	37	47	54	4
		Marginal Utility in Units/Utils	10	15	12	10	7	r
	 (iii) State at what point diminishing marginal utility sets in and explain your answer. The law of diminishing marginal utility sets in after the 2nd unit is consumed /on the consumption of the 3rd unit. As the additional/marginal utility gained from the consumption of the third unit (12) is less than the additional/marginal utility gained from the consumption of the second unit. (iv) State and explain two assumptions underlying this law. 					the (12) is	4 2 x 4	
	Consumer's income / taste doesn't change during the consumption period: if the consumer's income / taste changes, they may purchase a different combination of goods which affects their level of utility.							
	A certain minimum quantity (the origin) must be consumed for the law to apply: Whole units must be consumed e.g. a whole orange as opposed to an orange segment.							
	No time has elapsed between the consumption of successive units: if enough time elapses between the consumption of each unit then marginal utility will not decline. E.g. consumption of a muffin every minute vs. consumption of a muffin every Tuesday.							
								25

	Possible responses	Max Mark
(b)	(i) Explain, with the aid of a labelled diagram, the likely impact of the above measures on the market equilibrium of alcohol in Ireland.	
	Price P_1 P_2 E_2 D_1 D_2 Q_2 Q_1 Quantity	
	D_1 , D_2 , S_1 , Indication of lower equilibrium price and lower quantity: 1 mark each = 5 marks.	5
	As there are now less eligible places for alcohol companies to advertise their products their advertising will become less effective. This will lead to a decrease in the demand for alcohol, shifting D_1 to the left to D_2 . Quantity will decrease from Q_1 to Q_2 and price will decrease from P_1 to P_2 .	5
	(ii) Discuss three other possible measures which could be introduced to help reduce the consumption of alcohol in Ireland.	3 x 5
	Taxes : increase taxes such as excise duty/VAT on alcohol which may reduce consumption.	
	Regulate availability : Restrict opening hours for pubs and off-licences so that there will be less eligible times / opportunities to purchase alcohol.	
	Introduce limits to the amount of alcohol that can be bought in outlets: If shops and outlets implement a limit on the amount of alcohol which can be purchased by an individual customer in an individual transaction it may reduce the amount of alcohol consumed.	
	Age restrictions: raise the legal age for the consumption of alcohol from 18 to 21.	
	Sale points : restrict the number of places selling alcohol e.g. ban the sale of alcohol in petrol stations/ restrict the availability of licences. Create a barrier or enclosure so alcohol is kept away from the rest of the store.	
	Consumer awareness : provide advertising campaigns to raise awareness of the risks of excessive alcohol consumption / not allowing alcohol purchases qualify for loyalty points.	
	Allow for labelling which warns about the risks of consuming too much alcohol: cancers; heart disease and drinking during pregnancy.	
	Increase minimum pricing : this will ban the sale of alcohol at 'low' prices and so help reduce consumption.	
	Introduce harsher penalties for businesses in breach of their licence : if businesses are seen to be flouting the law, revoke their liquor licences.	
	Ban drinks industry sponsorship of sporting events : this may break the link between sports events and alcohol and this may help reduce the consumption of alcohol, particularly amongst younger people.	25

	Possible responses	Max Mark
(c)	(i) State and explain one reason why the demand for train services in Ireland has increased recently.	7
	Recovery in the Irish economy / increases in employment : as the Irish economy recovered from the great recession and the levels of employment around the country increased there was an increased demand for public transport.	
	Housing crisis : as people cannot find properties close to their area of employment, they must travel long distances, increasing demand for rail tickets.	
	Lack of regional development/ Lack of rural employment: as some areas of the country are far more developed and offer far more employment opportunities than others, people are required to travel long distances to seek employment. (Alternatives are expensive or unfeasible).	
	Changes in population : the changing demographic structure in Ireland means that there are more elderly people making use of free rail travel. Some consumers are switching to rail transport, where available, due to concern for the environment.	
	More consumers availing of the Taxsaver Commuter Ticket Scheme: this is designed to help reduce the cost for workers using public transport. The Taxsaver scheme covers, bus, rail and the Luas tram system. The Taxsaver scheme is operated in conjunction with the Revenue Commissioners. Employees can save between 31% and 52% of travel costs as a result of tax, PRSI and USC savings by using a TaxSaver ticket.	
	(i) Discuss the case for and against the increased investment by the government in Ireland's railways.	3 x 6
	For: Facilitates geographic mobility: It allows people to travel more easily between different parts of the country, from home to work and so increases the geographical mobility of labour.	
	Balanced regional development : Improved rail infrastructure could lead to a better standard of living in regions and so promote regional development e.g. West of Ireland.	
	Less road traffic congestion : Greater use of rail transport may reduce traffic congestion as the economy continues to grow.	
	Relatively environmentally friendly compared to travelling by car: Could encourage the use of public transport so less fossil fuels will be used thereby saving scarce resources.	
	Improved infrastructure: Investment is needed so that a quality service is provided to consumers on an on-going basis. As a result of investment, travelling times may decrease which may increase demand by both individual users and firms.	
	Social benefit : It provides a mode of transport for those people who do not have a private mode of transport so therefore it is socially desirable etc.	
	Cost effective for the state : interest rates are low and so the cost of repayment is low and this makes the investment cost effective.	

Possible responses	Max Mark
Against:	IVIdIK
Very capital intensive : as the capital required is quite high it will have major funding implications for government which will increase state borrowing. Ireland currently has a high national debt.	
It is very long-term investment: it might be too expensive as it is very long-term investment and investment in buses may be a better and more cost-effective measure in the short-term.	
Opportunity cost : subsidising lines that are not making returns involves an opportunity cost such as investing in road improvements.	
Cost to the taxpayer: the taxpayer may be tasked with footing the bill of an inefficient and unprofitable service. Irish Rail received a PSO subvention of €110.6 million in 2016.	
Unfair to those not serviced by rail services : not everyone will benefit from the investment as train services are not available in every part of the country.	25

Q2. Imperfect Competition

		Possible responses	Max Mark
(a)	(ii)	Explain one reason why the above industry is imperfectly competitive. There are many small firms who operate independently and can influence prices. There are no barriers to entry/exit. Firms can enter and exit the industry without restriction which is why there has been a fivefold increase since 2012. Product Differentiation. The firms in this industry have differentiated their products. Products are differentiated through packaging and flavours in order to attract customers/build brand loyalty. State and explain three other key characteristics of this market structure (other than your answer to (i) above). There are many small firms who operate independently and can change their own price. There are no barriers to entry/exit. Firms can enter and exit the industry without restriction which is why there has been a fivefold increase since 2012. Product Differentiation. The firms in this industry have differentiated their products. Products are differentiated through packaging and flavours in order to attract customers/build brand loyalty. There are many buyers who operate independently and cannot individually influence price. Reasonable knowledge within the industry. All firms in the industry are aware of the profits earned by other firms in the industry. Consumers may not be aware of all prices/products available within the industry. Each firm seeks to maximise profits. Firms produce MC = MR and MC cuts MR from below in order to maximise profits.	
			20

				P	ossible respo	ıses				Max Mark
b)		Explain, wi short-run i			elled diagram, tion.	the equ	uilibrium	position (of a firm in	
		Price				MC	, AC			
		\mathbf{P}_1			X /	//				
		C_1	S	NR	Y					
					K _E					
			\				D=AR			
					MR Q ₁		———Oua	ntity		
			T	Ι	Correct		<u> </u>		SNP	
	D=AR	MR	МС	AC	Equilibrium point - E	P ₁	C ₁	Q ₁	accurately shown	9
	Explana	tion:								9
	1. E		at point E IR [and M		g].					
	2. P		out n produce s it at P _{1.}							
	3. C	ost The cos	t is show	n at C ₁ (p	oint Y).					
	4. S		n is earnii e AR > AC		P ₁ ,C ₁ ,Y,X)					
	5. Ir	nefficiency The firn	n is not n	roducing	at the lowest	noint o	n +ha AC	011210		

Possible responses	Max Mark
(ii) With the aid of a labelled diagram, explain the impact which the entry of new firms would have on the equilibrium of the firm in (b)(i) above.	
Price ATC MC P_1/C_1 E $D_2=AR_2$ MR Q_1 Quantity	6
 As more and more firms enter the industry: Each incumbent firm will lose some of its customers as they are competed away. This will cause the firm's demand curve to shift to the left to D₂. Firms will stop entering the industry once AR = ATC at this point only Normal Profits are earned. 	6
This is the long run equilibrium of the firm in imperfect competition.	30

	Possible responses	Max Mark
(c)	(i) Explain non-price competition.	6
	Non-price competition is a situation whereby in order to avoid self-defeating competition with rival firms through changing prices, they attempt to maintain their price and entice consumers / increase market share through other methods.	
	(ii) Outline two examples of effective non-price competitive measures used by firms. Why do you consider these to be effective measures for the firms? Firms can entice customers to purchase from them through offering:	2 x 3
	Clubcards/Loyalty cards/Money-off vouchers.Free car park	
	• Coupons	
	24hr opening hoursFree gifts/giveaways	
	Buy one get one free	
	Convenient location	
	Advertising, promotion and branding	
	These measures can be considered as effective competitive methods if they create brand loyalty and encourage consumers to continue to purchase from these firms.	5
	(iii) Is non-price competition beneficial to consumers? Outline two reasons for your answer. Yes	2 x 4
	It allows for price stability which makes it easier for consumers to budget for the future accurately.	
	Consumer Loyalty is rewarded : customers feel that their custom is recognised, and they are encouraged to continue to purchase from this business.	
	Informative advertising leads to well-informed consumers : the more informed consumers are the easier it is for them to make decision about what products to purchase and how to get the best value for money.	
	A more diverse shopping experience: Through changing the product and the shopping experience consumers benefit from greater variety and choice.	
	No - not as beneficial as non-price competition:	
	Can get goods at cheaper prices: if there was price competition then consumers would get the good at a cheaper price and so more value from their limited income. With non-price competition consumers may end up paying for these measures e.g. advertising.	
	Higher disposable income: with lower prices consumers will now have a higher disposable income resulting in a better standard of living as they can afford more goods/services.	
	More choice : as consumers may now have more disposable income it is they who decide how they use it not a firm who makes special offers for which the consumer may pay.	
		25

Q3. Employment, MNCs and gender pay inequality

	Possible responses	Max Mark
(a)	(i) Define Full Employment.	8
	Full employment refers to the scenario where all those members of the labour force who are willing and able to work at existing wages are employed (usually benchmarked at approximately 4% unemployment.)	
	(ii) Discuss the possible economic benefits and challenges of full employment in the Irish economy.	
	Possible economic benefits may include:	
	Increased standard of living for citizens: higher incomes will enable the citizens to buy more goods and services.	
	Fall in social welfare bill / Increase in tax revenues: as more people are employed the government will be paying out less in social welfare payments. With high employment the government will collect more revenue from direct and indirect taxation.	
	Increased aggregate demand / Economic growth: full employment will increase aggregate demand for goods & services in the economy and this will increase economic growth and GNP.	
	Increased investment : full employment encourages further investment as demand is rising and expectations are more positive about the future.	3 x 6 (3+3)
	An increase in confidence in the economy: both business and consumers will have more confidence in the economy which should encourage higher economic growth in the future.	
	Reduces inequality and may prevent poverty: when people are in employment, their income rises and the level of poverty in the country may fall helping to reduce inequality within the country.	
	Possible challenges may include:	
	Possible skilled labour shortages : it may make it difficult for employers to meet production targets. Employers may need to recruit workers from overseas.	
	Possible wage demands : where there is a shortage of workers, employers may have to increase wage rates in order to retain existing employees and attract new employees.	
	Pressure on the state infrastructure : with more people working there will be pressure on transport, public services, schools, housing etc. The lack of affordable homes and school places may it difficult for to attract FDI.	
	Loss of service : in those sectors with low wage rates it may be difficult to attract workers and the quality of service may deteriorate or discontinue.	
	Inflationary pressures : increasing incomes and spending tend to fuel inflation in the economy.	
	Negative Balance of Payments Impact: increasing incomes and MPM increase the demand for imports and the Balance of Trade may fall into deficit.	26

	Possible responses	Max Mark
(b)	Ireland is an attractive location for many multinational companies (MNCs).	
	Discuss four possible economic risks for the Irish economy if some of the MNCs currently in Ireland, choose to re-locate outside Ireland.	4 x 6 (3 + 3)
	Taxation revenues : multinationals pay most of Ireland's Corporation Tax, which is hugely volatile, and would leave the government finances in a vulnerable position should these firms decide to leave Ireland. The government received a record corporation tax take of €3.1 billion in November 2019 which is due to a windfall driven by big payments from multinationals.	
	Loss of employment: if some MNCs decided to move out of Ireland, then the effects on the local and national economy could be significant. Over 1,100 foreign companies have decided to place Ireland at the hub of their European operations employing thousands of people and thousand more as an indirect result of these investments. There may be large-scale unemployment of these firms decide to relocate to another country. Foreign companies in Ireland employ 240,000 workers.	
	Effects on economic growth: the loss of jobs, incomes, profits and a fall in exports would have a major negative impact on Ireland's economic growth both in the short-term and longer term.	
	Increased difficulty in attracting FDI: if some MNCs re-located outside Ireland it could signal to other MNCs who are considering locating in Ireland that the country has become unattractive for FDI. This would make the job of the IDA more difficult in attracting FDI and may put pressure on the government to offer further inducements to these MNCs.	
	Loss of skills in the workforce: those workers who become unemployed and are mobile may emigrate and these skills are then lost to the Irish economy. This may mean that funding will have to be provided in the future to upskill workers.	
	Effect on regional development : some of these companies create a lot of jobs in towns / cities around Ireland. Their re-location would significantly affect these regions and make it very difficult to achieve regional development within Ireland. The restructuring of the Novartis pharmaceutical company in Co. Cork and the Molex plant in Shannon.	
		24

	Possible responses	Max Mark
(c)	(i) Outline two reasons why gender pay inequality continues to exist in the Irish economy.	
	Discrimination in the workplace : women and men may not be paid the same wages even though they do the same work due to illegal discrimination in the workplace.	
	Lack of enforcement by State agencies: state agencies do not enforce the existing legislation or may not take legal action against offenders.	
	Balancing work and family responsibilities : some women work shorter hours and often part-time to combine family responsibilities and paid work. Career progression can be interrupted by maternity leave.	
	'Glass ceiling'/fewer women in senior and leadership positions: women are under- represented in most senior positions, in politics and in certain sectors within the economy such as on boards of management.	
	Different jobs, different sectors : women and men carry out different jobs and often work in different sectors. In health and social work women make up 80% of workers.	
	Undervaluing of women's work and skills : women's skills and competencies are often undervalued, especially in occupations where they are in the majority. This is reflected in lower rates of pay.	
	Gender role of women / tradition : some people may still consider that a woman's role in society is to stay in the home and rear children and this may still cause rates to be lower in some societies.	

Possible responses	Max Marl
(ii) Discuss two measures the Irish government could take to help reduce gender pay inequality in Ireland.	
Awareness - raising Campaign: governments could put in place measures to raise awareness on gender equality and company good practice. A widespread advertising campaign during 'European Equal Pay Day' might raise awareness of the gender pay gap and initiate change. The Gender pay Gap Information Bill 2019 would require the introduction of pay gap reporting for any organisation with more than 50 employees.	
Collective Agreements : social partners could make provisions in collective agreements on gender equality and require companies to report on salaries and plans to close the gender pay gap.	
Labour Inspections / name and shame the offenders : labour inspectors could be trained to carry out inspections on equal pay violations and publish names of offenders.	
Audits by companies : gender equality plans and audits enable companies to measure their progress in implementing gender equality and equal pay.	
Make pay systems transparent : transparent pay systems are very important in implementing equal pay e.g. software to help companies analyse pay and staffing structures and verify if equal pay exists.	
Gender Equality Studies : a government could implement studies into the issue and take action to implement strategies to close the gender pay gap.	1 st : 8 2 nd :
Implement / enforce existing laws: governments could also ensure that current laws are enforced by taking legal cases against offenders.	2 x !
Education on gender stereotyping : policies could be pursued which challenge 'traditional' views of women in schools, home and in the workplace.	
	25

Q4. Costs and Competition/Regulation

	Possible responses	Max
		Mark
(a)	(i) In the short-run firms may stay in the industry even if they are making a loss. Explain this statement.	5
	If a firm's total revenue is greater than its total variable costs, then it will continue to produce in the short run. Any revenue generated above the firm's variable cost can contribute towards paying the fixed costs i.e. the loss by producing would be smaller than by closing down.	
	(ii) State and explain three reasons why it is important for a business to control its costs.	15 (3 x 5)
	Lower prices / increased demand / profits increase: a business may be able to lower its prices, and this may entice consumers to purchase more goods/services. Increased demand will result in increased sales and profits and a more secure future for the business.	
	Increased competitiveness: with lower costs, prices may fall for these goods. Businesses exporting goods may find that the demand for their exports will increase as they are more competitive.	
	Better use of scarce resources / reduced waste : all businesses will want to control their costs so that they are not wasting scarce resources.	
	Survival of business : the firm must have enough money to pay its bills as they fall due. If costs are greater than revenue, the firm will be forced out of business in the long run. The firm must earn profit if it is to survive in business.	
		20

		Possibl	e respo	nses				N N
(i) Calculate the marginal cost and average total cost at each unit of output. Show your workings.								
	Show your workings.							
	Output (Q)	0	1	2	3	4	5	
	Total Cost (TC) in €	10	20	27	36	52	80	
	Marginal Cost (MC) in €	-	10	7	9	16	28	
	Average Total Cost (AC) in €	-	20	13.5	12	13	16	
	Marginal Cost Workings	s:		Averag	e Total	Cost W	orkings:	
	MC1 : 20 – 10 = 10					$)\div 1=2$		
	MC2: 27 – 20 = 7					$\frac{1}{2} \div 2 = 1$		
	MC3: 36 - 27 = 9					$0 \div 3 = 2$		(10
	MC4: 52 – 36 = 16 MC5: 80 – 52 = 28					$0 \div 4 = 2$ $0 \div 5 = 2$		
25 20 15								
10								(10
10								
							6	
5	1 2	3 	1C	4 ATC	5		Output	
5	1 2		1C		5			
5	1 2 Draw one graph showing ma	→ N		ATC			Output	
5		rginal co	ost and	average	total co	st and e	Output xplain the	
(ii) Whe	Draw one graph showing ma relationship between both co en the marginal cost is lower t	rginal courves (yo	ost and ou may average	average use grapl	total co n paper	st and e if you w	Output xplain the rish).	
(ii) Wheelis been	Draw one graph showing ma relationship between both cu	rginal courves (you han the inal cost	ost and ou may average	average use grapl	total co h paper e averag	st and e if you w ge cost is	Output xplain the rish).	

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	Possible responses	Max Mark
(c)	(i) Define internal economies of scale.	10
	Internal economies of scale refer to the decreases / in average total cost accruing to a firm as it increases its scale of production.	
	(ii) Outline three internal economies of scale which Fiat Chrysler/Peugeot may achieve post-merger.	3 x 4
	Managerial economies / labour economies: there may be increased specialisation of worker on their specific tasks leading to increases in productivity of the firm. Only the best managers from both firms will be kept on board reducing the costs of administrative / unproductive staff.	
	Purchasing economies : the scale of production of the overall firm will now be larger and thus they may be able to purchase raw materials on a larger scale. Bulk buying may lead to lower per unit costs.	
	Technical economies : as the firms merge, they may be able to pool resources to afford the most advanced technology which will reduce production costs per unit.	
	Economies in use of raw materials : the firm can use the same basic components on all its vehicles and so there is less chance of resources being wasted.	
	Economies in distribution : post-merger the firm will have more enterprises in more locations which requires may result in transportation costs for raw materials and finished products.	
	Marketing economies : the firm can spread the cost of marketing across a wider range of output thus reducing the cost on a per unit basis. A single specialist marketing team can be better utilised across a wider range of vehicles.	
	(iii) Outline two reasons why the EU's competition enforcer might move to block the proposed merger.	2 x 4 (2+2)
	Exploitation of consumers : reduced competition in the market will lead to a more concentrated market which may exploit consumers in order to maximise profits.	
	Higher prices: with less competition between firms, prices are likely to increase.	
	Reduced research and development : firms may be less inclined to invest in research and development if there are fewer firms to compete against.	
	Reduced quantity and choice for consumers : the overall number of cars produced may decrease as the firms drop production of cars from their previous product line. This reduces both the quantity of available cars and the choice of types for consumers.	
		30

Q5. Enterprise, Labour and Elasticity

	Possible responses	Max Mark
(a)	(i) Define the factor of production enterprise.	9
	Enterprise is the factor which helps to produce wealth by supplying initiative/ ideas and organises / controls all the other factors of production in the hopes of earning a profit and bears the risk involved.	
	(ii) Discuss four economic reasons why entrepreneurship is so important to the Irish economy.	4 x 4 (2 + 2)
	Creates employment : entrepreneurs need workers to produce goods and services. Takes pressure off the government by creating a healthy private sector which creates jobs.	
	Organises production : entrepreneurs organise the other factors of production into production units which is integral to the production of output in a country.	
	Decides what prices to be charged : entrepreneurs decide what prices to charge for their goods and services hoping there will be a demand at these price levels. These individual price decisions combine to determine the inflation rate of a country and its national competitiveness.	
	Decides what commodities will be produced : entrepreneurs decide which goods and services are going to be produced and in what quantities, by anticipating consumer demand.	
	Encourages further investment / innovation : entrepreneurs put both their money and skills into a business in the hope of making a profit and this may encourage further investment in the economy, if successful.	
	Provides an outlet for savers funds : entrepreneurs provide an investment outlet for savers funds, generating a return on savings.	
	Generates revenue for the government : entrepreneurs help generate revenue for the government through taxation revenues in the form of corporation tax and also through the avenues of income tax and V.A.T.	
	May increase exports : if the goods are exported this will improve Ireland's balance of payments position. If exports are greater than imports Ireland experiences a balance of payments surplus.	
	Creates income and wealth within the country : successful entrepreneurs create flows of income for themselves and others. They also generate assets creating a stock of wealth which helps increase the standard of living.	
		25

<u> </u>			Possible	eresponses			M Ma
(i)		late the margina Show your worki	•	_	enue product of	labour for this	1
lab	its of oour oployed	Total output per labour units per week (units)	Marginal product (units)	Price of output	Marginal revenue product of labour	Marginal cost	
1		10	10	€20	€200	€140	
2		25	15	€20	€300	€140	
3		45	20	€20	€400	€140	
4		60	15	€20	€300	€140	
5		70	10	€20	€200	€140	
6		77	7	€20	€140	€140	
7		82	5	€20	€100	€140	
	Mar	ginal Product W	orkings:	Marginal F	Revenue Produc	t Workings:	
		MP_2 : 25 – 10 =	15		MRP ₂ : 15 x 20 =	: 300	
		MP_3 : 45 – 25 =			MRP ₃ : 20 x 20 =		
		MP ₄ : 60 – 45 =			MRP ₄ : 15 x 20 =		
		MP ₅ : 70 – 60 =			MRP ₅ : 10 x 20 =		
		MP ₆ : 77 – 70 =	/		MRP_6 : 7 x 20 =	: 140	
		N/D_+ 02 77 -			MADD - E v 20 -	100	
		MP ₇ : 82 – 77 =	5		MRP ₇ : 5 x 20 =	: 100	
		MP ₇ : 82 – 77 =			MRP ₇ : 5 x 20 =		
(ii)	the allTTthE		e law of dimin xplain your an shing margina production th as, the additio roduced by th orker contribu	swer. I returns sets the fourth unit thal output pro the 3rd worker that ites less addit	6 x 1 mark eans applied in after the third column in a function in a fun	es to labour in d unit is th worker is less	
(iii)	the all	at what point the law of diministroduced/ on the his can be seen and the output pach additional w	e law of diminate production the service of the point onwards ould be employed employed the employing the disploying more to the point onwards ould be employed the employing the disploying more to the point onwards ould be employing the employing more to the point onwards ould be employed the employing the disploying more to the point of the	swer. I returns sets the fourth unith and output projects additionally and the above on employing the worker. In profits could han 6 workers	6 x 1 mark earlier and returns applied in after the third and the second by the 4 constant output the cove firm? Explain g the 6th worker the increased by	es to labour in d unit is th worker is less in the previous n your reason. is equal to the y employing	3

		Possible res	ponses			Max Mark
(c)		ish firm which sells its product in both the ollowing information:	EU and US mark	ets provides	you with	
			EU	US		
		Price elasticity of demand	-0.8	-2.4		
		Income elasticity of demand	+0.72	+2.8		
	(i)	 Explain whether you consider this good to This good is a normal good. This is so of demand, indicating that if income purchased. 	nown as it has a រុ	oositive inco	-	7
	(ii)	Suggest one reason for the difference is product in each market. The good has a lower price elasticity of does in the United States. i.e. percentathan percentage change in price in the States. • The good may have greater brand does in the United States. If consumbut not in another it may mean the without a significant decrease in questions. • The good may have greater available market but not in the European market but not in the European market a large proportion.	demand in the Ege change in qua European Union loyalty in the Eur mers are loyal to ey have more pow uantity. oility of close sub- arket. If the price in of customers w	furopean Unintity deman but not in the opean markethe brand in wer to increastitutes in the increases in	on than it ded is less e United et than it one market se price e American the	7
	(iii)	 If the firm wishes to maximise total sale market a higher price should be charge In the European market. The demand in the EU is price inelatingher price here as consumers are those in the US market and so the Whereas in the US the demand is price firm were to increase its price the demanded will be greater than the lead to an decrease in total revenue. 	d. Explain your and stic therefore the less responsive demand will not percentage decrease percentage incre	e firm should to price char change alot. he product ar ease in quant	d charge the ages than and if the city	6
						20

Q6. International Trade

	Possible responses	Max Mark
(a)	(i) Explain the terms tariffs and subsidies.	2 x 6
	Tariffs refer to taxes placed upon imports which makes them more expensive for consumers in to deter their consumption.	
	Subsidies are payments from the government / EU, to domestic producers to support and encourage the production of a particular good / reduce the producers' average production costs.	
	(ii) Explain why the European Union would give subsidies to a company such as Airbus?	6
	European employment : through supporting this company it allows them to produce more output which requires more labour thus increasing employment in Europe including in spin-off industries which support airplane manufacture.	(3+3)
	European economic growth : these subsidies will allow this firm to produce more output at a lower cost. If the output produced is increasing year on year it will support economic growth within Europe and thus support improved standard of living within this region.	
	Research and development : the EU recognises the value of research and development and so provides support to this firm in order to encourage technological progress.	
	Encourage European (and International) trade : through this support from the EU it allows Airbus to become highly specialised in their production, lowering costs and making them more internationally competitive thereby encouraging trade. It also encourages Airbus to source raw materials throughout Europe.	
	(iii) Discuss the arguments against trade protectionism.	12 (3 x 4)
	Firms may become over dependent on the protection : measures such as these may, create inefficiency within the firm as they have a safety net. The firm may feel less need to innovate or improve their product as they already have an advantage over their foreign competitors.	(3 x 4)
	May lead to retaliation: the US are displeased with this unfair advantage and have placed tariffs on European goods in response. The current economic climate hints at hostility on many trade fronts with the US and China also involved in trade disputes.	
	Inequality : some firms may receive government support while others must survive without it. This is inherently unfair. Small start-ups may already struggle to compete against the cost structure of large firms, if protectionist measures are put in place it may deter new firms altogether.	
	Reduction in world output : the law of comparative advantage assumes that if countries specialise then production of world output will increase. With protectionism less output will be produced globally.	30
	Employment levels : with free trade would output would rise and with this employment levels.	

	Possible responses	Max Mark
(b)	(i) Distinguish between a free trade area and a common market (such as the EU).	
	A Free Trade Area means that member countries can trade freely without tariffs being imposed on one another.	7
	A common market: member countries agree to trade freely with each other and impose common tariffs on countries that are outside the union. It also allow free movement of labour and capital between members.	6
	(ii) Discuss three economic benefits to Ireland from continued EU membership.	12 (3 x 4)
	Free Trade Area / larger market / trade expansion: being a member of the EU allows Ireland access to an increased market size of over 500 million people. These customers can be exported to tariff free. Ireland also benefits from the collective agreements that the EU negotiates with other countries outside the EU. Trade is also made easier within the EU with the removal of barriers / Irish firms can bid for public sector contracts within the EU.	,
	Capital Funding : Ireland has received large amounts of capital funding from the EU throughout its years of membership which has supported activities such as improvement in infrastructure; re-training grants; Erasmus funding etc.	
	Freedom movement of capital / labour : we have the freedom to live and work in any other member state without the requirement for a visa. Membership allows access to increased study / job opportunities. Also allows access to EU capital markets.	
	Foreign Direct Investment : Ireland operates as an export hub on the doorstep of Europe, this location provides an incentive to American firms to provide FDI into Ireland in order to access this market.	
	EU legislation and policies : Ireland is protected by the policies and arrangements which the EU has agreed with EU member states and external countries such as the CAP and the Fisheries Policy. Workers and consumers are protected by EU legislation.	25

	Possible responses	Max Mark
(c)	(i) Outline the economic advantages of growing new export markets for the Irish economy.	10 (2x5)
	Access to larger markets/ Increased sales and profits: As Ireland is a very small market, entering this foreign market gives Irish SMEs access to more customers and more opportunity to expand. If Irish SMEs can sell more goods abroad this will boost their revenue and consequently their profits.	
	Economies of scale : If they are successful in increasing sales abroad, they will be able to increase production and gain the advantages of large scale production and benefit from economies of scale.	
	Diversifying risk / Brexit : rather than being overly dependent on the home/UK market Irish SMEs have the opportunity to have a range of customers in different markets and would suffer less should demand in the home/UK market fall.	
	Easier to access finance : larger firms are able to raise finance for future expansion more easily and find it easier to access credit.	
	(ii) Discuss two possible difficulties which Irish exporting companies may have encountered in entering the Chinese market.	10 (2x5)
	Transport costs : these increase the prices of the exports. As Ireland is an island nation these costs can be significant and can make our goods more expensive.	
	Labour costs : labour costs in Ireland tend to be high which will increase costs of production and make it difficult to compete with goods produced in other countries.	
	Exchange rate risks (in trading outside Eurozone countries): if the Euro rises in value relative to the trading partners, then Irish exports become more expensive and this presents a challenge when Irish firms are trying to compete abroad.	
	Language skills : a lack of language skills has always been a challenge for Irish business but poses more of a challenge in the emerging markets in Asia.	
	Bureaucracy in other countries/regulatory hurdles : these regulatory hurdles, particularly outside the EU, hinder the possibility for Irish SMEs to expand. It is challenging for Irish SMEs to break into new markets.	

Possible responses	Max Mark
Level of costs: if coming from a small market Irish SMEs don't have the benefits of	
economies of scale compared to large MNCs and this makes it difficult for them to	
attract business, based on price.	
Competitiveness: if the inflation rate in Ireland is higher than that of our competitors, then this makes Irish goods less attractive abroad. Other costs e.g. insurance costs, utilities such as electricity, gas, broadband etc. are generally higher in Ireland than in other European countries –increase costs of production and will affect the competitiveness of Irish firms abroad.	
Accessing credit: if Irish firms can't get access to credit from banks to fund expansion it will make it difficult for them to enter international markets.	
Capacity of the firm : Irish SMEs may not have the capacity to meet demand for their products abroad if they successfully secure contracts.	
	20

Q7. Government in the Economy

	Possible responses	Max Mark
a)	(i) Why do some people consider the carbon tax to be a regressive tax?	7
	The carbon tax can be considered regressive as it is an indirect tax which will be charged at same rate from every customer for every unit of carbon produced. Therefore, as the rate of tax is constant for all customers, people on lower incomes will spend a larger proportion of their income on the tax than those on higher incomes, thus it is a regressive tax.	
	Takes a higher percentage of income from low income tax-payers than from high income tax-payers / The proportion of taxation falls as income increases.	
	(ii) Outline the possible positive and negative economic consequences of the above measure for the Irish economy.	18 (3x6)
	Positive:	
	Less consumption of demerit goods : because the fuels which it is placed on are demerit goods which negatively impact the environment. The taxes would focus on polluter pays policy.	
	Closer to achieving EU targets: the government is failing to meet its environmental protection EU targets. Increasing this tax would bring Ireland closer to achieving these. Would avoid penalty payments for not meeting targets.	
	Additional tax revenue: it would also generate additional revenue for the government. (Including all points relating to what this additional revenue could be spent on i.e. improving state services.)	
	Changing consumer mindsets : it would encourage businesses and households to transition to sustainable sources of energy and Ireland would preserve non-renewable resources. These taxes would entice households and businesses to switch to more sustainable resources and change consumer patterns.	
	Evasion impossible : as the indirect tax is included in the selling price of the good or service it is impossible to evade.	
	No disincentive to work : a taxpayer can adjust their expenditure patterns to reduce their tax liability and thus it does not act as a disincentive to work as with direct taxes.	

Possible responses	Max
	Mark
Negative:	
Higher household costs : the poorest households spend a higher percentage of their income on fuels for heating and transportation while higher income individuals spend a proportionately greater amount on services which usually have lower than average carbon emissions per unit of output. Emissions increase more slowly as income increases.	
Higher business costs : the carbon tax would add to business costs thereby conflicting with the government's priorities of creating jobs, reducing income inequality and attracting investment.	
Falling international competitiveness : the carbon tax would have a detrimental effect on export competitiveness as cost increases may lead to higher export prices and possibly reduced demand for exports.	
Pressure on public transport : carbon taxes may be considered as anti-rural due to the lack of public transport in rural areas. Public transport may be at or over capacity.	
Will increase inflation : indirect taxes raise the prices of goods and services and hence the cost of living, possibly causing demands for further wage increases.	
	25

	Possible responses	Max
(1-)	/:\ dentification and an according for the state of th	Mark
(b)	(i) Identify one example of current government expenditure and one example of capital government expenditure from the above measures. Explain your choice in each case.	8 (2x4)
	Current government expenditure : expenditure for An Garda Siochána. This is current expenditure as it is for the day-to-day running of the country.	
	Capital government expenditure: expenditure for construction of the dual carriageway. This is expenditure on long-term projects to increase the productive capacity of the country. The benefits accrue to the citizens over a long period of time.	
	(ii) Discuss the social benefits and economic benefits of increased spending on An Garda Siochána.	12 (3 x 4)
	Injection into the circular flow of income : the additional earnings by the gardaí will be spent back into the economy which will have a multiplier effect on national income.	
	More employment/more spending: the additional funding provided to the gardaí will allow more people to gain employment, earn wages and spending on goods and services in the economy.	
	More legitimate businesses / less shadow market activity: with more spending in the economy and a greater police presence this will encourage the growth of legitimate businesses and discourage the growth of the shadow economy.	
	Less crime : with a greater police presence across the country it will provide greater security for communities allowing for a greater piece of mind for households and businesses.	
	Must have one social /economic benefit.	
	(iii) Outline one argument for <u>and</u> one argument against making new sections of motorways toll roads.	5+5 (3+2)
	For	
	Higher quality : the use of toll funds may improve the quality of the road in question and help reduce the number of road traffic accidents.	
	Financing construction / maintenance : revenue earned could help fund the development /maintenance of this road.	
	More efficient transport: times saved by all users and may help reduce emissions.	
	Against	
	Other motor taxes: road-users may feel that they are being charged too many taxes as they already pay motor tax and tax on petrol/diesel. Cost if living rises.	
	Regressive : as the toll charged is the same rate for all road users regardless of income earned, it takes a higher proportion from low income earners than high income earners.	
	Firms face higher costs : which may be passed onto the consumer and/or they may seek alternative routes.	30

	Possible responses	Max Mark
(c)	(i) In your opinion, is this empty home tax a good idea? Explain your answer. Yes	8
	Encourage people to sell the vacant property : this may spur people to sell the vacant property and so those people who actually need a home can now get access to one.	
	Misallocation of resources/opportunity cost/market failure: an economy in which there is a homeless crisis and at the same time idle houses is clearly suffering from market failure as resources are being misallocated. Those who need homes have none whilst those who have them are not using them.	
	Maye ease the housing crisis: the housing crisis is one of the most persistent economic issues in Ireland in recent years and is costing the state in providing emergency accommodation. This cost may be reduced.	
	No	
	Extra tax unfair on top of LPT : this tax may be seen to be unfair as it taxes people who already pay taxes for owning homes.	
	Nanny state / interference in the market system: it may be seen that the government is overprotective or as interfering unduly with personal choices.	
	(ii) Suggest three alternative measures the government could take to help reduce homelessness in Ireland.	12 (3x4)
	Social housing : the more social housing the government supplies the greater the overall supply of housing will be, which will help to alleviate the crisis.	
	Modular housing : these low-cost, fast-build houses / apartments could allow rapid increases in the number of houses available which could help to meet some of the market demand for houses.	
	Build up, not out: if cities around Ireland are rezoned to allow the construction of high-rise buildings, it will allow for much denser population in certain areas and will drive down the cost of housing in the area.	
	Rezone land: if more land is rezoned from agricultural and commercial zoning to domestic zoning it will afford people more opportunities to build houses	
	Reduce tax / charges on construction of homes / rental income: this may encourage more investors to build houses and/or provide properties for rental. Local Authority charges can act as a disincentive for investment.	
	Increase the levy on land hoarders: In January 2020 the rate of levy in Dublin was increased from 3 per cent to 7 per cent. This may make more land available for building.	
	Increased provision of emergency accommodation (as happened in 2018 due to falling temperatures): this will help in the short run only though.	
	Rent freeze in Rent Pressure Zones: these are located in parts of the country where rents are highest and rising, and where households have the greatest difficulty finding affordable accommodation.	20

Q8. National Income and the national debt

	Possible responses	Max Mark
(a)	Explain the following economic terms, giving an appropriate example in each case:	7 + 7 + 7 (5+2)
	Transfer Payments : payments for which no factor of production is provided / payments for which no work is done. e.g. unemployment benefit	, ,
	Benefits-in-kind : payment in any non-monetary form / payment made in the form of goods or services. e.g. use of a company car.	
	Net Factor Income from the Rest of the World : All income earned by Irish factors of production abroad repatriated to Ireland ² minus ¹ all income earned by foreign factors of production in Ireland repatriated back to country of origin ² .	
	e.g. income send back to Ireland by Ryanair less income earned by Facebook.	21

Possible responses							
	Υ	С		G	X	M	
2018	€200,000	€70,000	€50,000	60,000	€80,000	€60,000	
2019	€250,000	€105,000	€55,000	€65,000	€90,000	€65,000	
(i)	Calculate the	level of gove	ernment spe	ending in 20	18.		
 200,000 = 70,000 + 50,000 + G + 80,000 - 60,000 200,000 - 70,000 - 50,000 - 80,000 + 60,000 = G G = 60,000 							
(ii)	Calculate the	level of Natio	onal Income	e in 2019.			
•	Y = 105,000 + Y = 250,000	55,000 + 65,	,000 + 90,00	00 – 65,000			5
(iii)	Define Margi	nal Propensit	y to Import	(MPM).			
	arginal propened which is spe		-		ach extra unit of	income	5
(iv)	Calculate the	Marginal Pro	pensity to I	mport (MPI	M).		5
_!	Change in imp Change in inc		000 – 60,000 000 – 200,00	_	<u>,000</u> = 0.1 0,000		
(v)	(v) Calculate the multiplier. Explain the economic meaning of the value calculated.						
	Change in cor Change in i		<u>105,000 –</u> 250,000 –		= <u>35,000</u> 50,000	= 0.7	
MPS =	1 – 0.7 = 0.3						
(1-N	1 1PC) + MPM	_		1 MPS + N	<u></u>		5
	1			1			
(1-0	0.7) + 0.1			0.3 +	0.1		
Multi	plier = 2.	5		Multiplier	= 2.5		
_	2.5 times grea				rcular flow of ind the size of the in	-	5
							3(

	Possible responses	Max Mark		
(c)	(i) Explain the term <u>national debt</u> .			
	National debt is the total/cumulative amount of government domestic and foreign borrowing which is outstanding.	6		
	(ii) Name the agency responsible for managing Ireland's national debt. State and explain one other function of this agency.	6 (3 + 3)		
	Name: The National Treasury Management Agency NTMA Its core function is borrowing for the exchequer and debt management in order to ensure liquidity for the exchequer and to minimise the interest burden over the medium term.			
	 Amongst its duties are the following: Borrowing on behalf of the Irish Government / sale of government bonds. Managing the National Pension Reserve Fund. Managing other government funds such as the Social Insurance Fund and Dormant Account Fund. Borrowing on behalf of the Housing Finance Agency. Providing financial advice, possibly funding, and providing guarantees for all major public investment projects carried out by the National Development Finance Agency operating through the NTMA. Providing a Central Treasury Service for the taking of deposits and lending to local government bodies, and liquidity management for the Central Bank and Financial Services Authority of Ireland. Personal injuries claims brought against Government departments and other State Authorities/ the State's Clinical Indemnity Scheme managed by the NTMA as the State Claims Agency. Acting as Ireland's agent for the purchase of carbon credits. 			
	(iii) Outline three risks to the Irish economy arising from the above level of national debt.	3 x 4 (2+2)		
	Opportunity costs involved / loss of public services : with more funds being used to meet our annual interest repayments the government has less funds available for other purposes. The government has cut spending on public services, resulting in deterioration in provision of some services e.g. the health service; education service			
	Increased burden on current and future taxpayers : the increase will mean that the government will have to consider increasing future taxes on future taxpayers.			
	Annual interest repayments : the increasing national debt means that the annual cost of repaying our national debt is rising. Interest payments are payments for past consumption and they are made at the expense of current consumption.			
	Loss of economic sovereignty / damage Ireland's credit rating: when a country cannot fund itself it can apply to external bodies, such as the IMF, for funding. However to get the funding a country has to accept conditions as specified by the external bodies. The difficulty to pay back our debt may be harmful to our international credit rating.			
	Circular flow of income: with more money leaving the country a smaller amount remains here thereby reducing our circular flow of national income. This could reduce the level of economic activity within the country.	24		

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